



Laudan's Error. Reasonable Doubt and Acquittals of Guilty People

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| Journal: | <i>The International Journal of Evidence and Proof</i> |
| Manuscript ID | EPJ-20-0014 |
| Manuscript Type: | Original Article |
| Keywords: | False Acquittals, Proof Beyond Reasonable Doubt, Standard of Proof, Larry Laudan, Rate of Error |
| Abstract: | <p>Proof beyond a reasonable doubt (BARD) is one of the most fundamental requirements of American criminal law and other legal systems. Professor Larry Laudan has criticized this requirement for several reasons. His main contention is that the BARD formula converts evidential support into subjective confidence, and is therefore not a genuine standard of proof. At the same time, Laudan holds that BARD produces a large number of guilty defendant's acquittals due to its excessive demand for evidence. The aims of this article are twofold: firstly, to show the inconsistency between these theses; and secondly, independent of this inconsistency, Laudan's argument is unacceptable regarding the number of guilty defendant's acquittals. Perhaps the real ratio of false negatives to false positives were what Laudan holds them to be, yet he fails to provide any suitable argument to support his claim, or to attribute the alleged frequency of errors to a particular standard of proof – BARD or otherwise.</p> |
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Laudan's Error. Reasonable Doubt and Acquittals of Guilty People

Diego Dei Vecchi*

Abstract: Proof beyond a reasonable doubt (BARD) is one of the most fundamental requirements of American criminal law and other legal systems. Professor Larry Laudan has criticized this requirement for several reasons. His main contention is that the BARD formula converts evidential support into subjective confidence, and is therefore not a genuine standard *of proof*. At the same time, Laudan holds that BARD produces a large number of guilty defendant's acquittals due to its excessive demand for evidence. The aims of this article are twofold: firstly, to show the inconsistency between these theses; and secondly, independent of this inconsistency, Laudan's argument is unacceptable regarding the number of guilty defendant's acquittals. Perhaps the real *ratio* of false negatives to false positives were what Laudan holds them to be, yet he fails to provide any suitable argument to support his claim, or to attribute the alleged frequency of errors to a particular standard of proof – BARD or otherwise.

1 Introduction

For almost two decades Larry Laudan has been directing his philosophical efforts to analyse how decisions concerning the sufficiency of evidence are made in our criminal justice systems. Errors, their frequency, and consequences are at the core of his worries; particularly, the kinds of errors he calls *false verdicts*, to wit: verdicts whose factual premise is wrong. He distinguishes two types of false verdicts. On the one hand, convictions against innocent people also known as false positives or false convictions. On the other, acquittals in favour of guilty defendants also known as false negatives or false acquittals. False negatives may emerge from a prosecutor's decision to drop charges or can stem from a false verdict after the trial has ended. This paper focuses on Laudan's analysis of false negatives as a consequence of the trial.

* For very helpful comments, suggestions and corrections about earlier drafts, I am grateful to Edgar Aguilera García, Jorge Baquerizo, Hernán G. Bouvier, Carolina Fernández Blanco, Jordi Ferrer Beltrán, Daniel González Lagier, Diego Papayannis, Pablo Rapetti, and Carmen Vázquez. Different versions of the paper also benefited much from friendly discussion and comments from audience members on three occasions: the first, at the University of Girona, Cátedra de Cultura Jurídica, October 2019; the second, at the University of Alicante, February 2019; the third one, at the BIAP Workshop on Evidence, February 2020.

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3 To completely avoid errors of every kind is incompatible with any course of action.
4 The absolute avoidance of false positives and false negatives entails not making any
5 decision at all regarding citizens' guilt. Yet, not deciding also seems to be an error: no
6 community seems willing to resign judgment and the punishment of crimes.¹ Under
7 these circumstances, legal systems resort to certain tools, the apparent function of which
8 is to satisfy two needs: first, to set the threshold of evidence for accepting certain factual
9 propositions as true and act as a result of this acceptance; and second, to distribute the
10 errors involved when deciding and acting in this way. One of the most important tools
11 to these effects is the standard of proof (SoP).
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18 The phrase 'Beyond a Reasonable Doubt' (hereafter, BARD for short) has been
19 accepted in many different criminal justice systems as the proper formula to set out the
20 SoP. The hope is that the formula successfully sets a threshold of evidence, which when
21 applied, reflects a value judgment according to which convicting an innocent person is
22 worse than acquitting a guilty one. It is generally accepted that BARD instantiates the
23 so-called Blackstone's *ratio*: ten false acquittals for every false conviction.
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29 Larry Laudan has argued a great deal in favour of abandoning BARD, and gives two
30 main reasons. We shall call Laudan's first claim against BARD *the confusion thesis*, as it
31 sets out that BARD unacceptably confounds epistemic reasons (the right kinds of
32 reasons to justify acceptance of factual propositions²) with subjective confidence. In this
33 respect, he argues that BARD is not a genuine SoP as it is open to several different
34 interpretations, the majority of which lead to confusion between the degree of proof and
35 subjective confidence. The second claim against BARD is that it produces a very large
36 number of false acquittals. The argument here is twofold. On one hand, Laudan claims
37 that BARD admits more false acquittals than a rational-legal system would tolerate,
38 given that (in his moral view) Blackstone's *ratio* is not only groundless, but pernicious.
39 We shall call this claim the *consequentialist thesis*, since the pernicious character of BARD
40 lies in its potentially harmful consequences;³ however, this line of argument is not dealt
41 with here. On the other hand, according to Laudan, BARD not only tolerates too many
42 false acquittals in accordance with its underlying justification (i.e. the Blackstone *ratio*),
43 the main problem is that when BARD is actually applied, it generates many more false
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57 ¹ See Forst, 2004, p. 22 ss. and Whitman, 2008, § 7 regarding the origins of BARD.

58 ² The idea of *reasons of the right kind* evokes Strawson, 1962. More recently, Darwall, 2006, §§ 8 and 9;
59 Darwall, 2013.

60 ³ Truthfully, these harmful consequences are the result of the Blackstone *ratio*, which Laudan seems to
assume is the 'underlying reason' behind BARD. See Schauer, 1991, § 4.1.

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3 acquittals than even Blackstone's *ratio* tolerates. We shall call this claim the *failure thesis*.
4 I will focus on this facet of Laudan's "too-many-false-acquittals" claim.
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7 I will argue that the *confusion thesis* and the *failure thesis* appear to be inconsistent, but
8 the main goal of this paper is not to make this inconsistency explicit. Laudan's apparent
9 inconsistency is just a touchstone to argue that the *failure thesis* must be rejected. By
10 revealing what the failure thesis requires in order not to be inconsistent with the
11 *confusion thesis* opens the door to showing that Laudan's reasoning in favour of the *failure*
12 *thesis* is absolutely unacceptable. He provides no suitable ground to support his claim,
13 nor to attribute the outcome of the alleged high number of false negatives to a particular
14 SoP – BARD or otherwise. Paradoxically, some of the arguments Laudan himself
15 develops in favour of the *confusion thesis* will be helpful here.
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23 The paper proceeds in four steps. First, I will briefly refer to the minimal conditions
24 a standard must satisfy in order to be an authentic standard of proof (§1). I will then
25 recreate Laudan's arguments to ground the claim that BARD cannot function as an
26 authentic SoP. This is the *confusion thesis* (§2). Third, I will re-depict Laudan's arguments
27 to estimate the *ratio* between false positives and false negatives produced in the U.S.
28 criminal justice system (for violent crimes) and to (partially) blame BARD for these
29 errors. This is his *failure thesis* (§3). Finally, I will demonstrate that Laudan's argument
30 is either highly inconsistent (§4.1) or groundless (§4.2).
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37 1 BARD Under Suspicion

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39 One common assumption in Laudan's writings is that standards of proof are the most
40 appropriate tools for distributing errors in criminal cases.⁴ He thinks that the greater
41 the exigency of proof, the lower the number of false convictions; but at the same time,
42 this increases the number of false acquittals. Symmetrically, the lower the standard, the
43 higher the number of false convictions; however, the number of false acquittals would
44 diminish and punishment for the guilty would increase. The distribution of error by
45 means of a SoP consists precisely in setting a threshold of evidence, the outcomes of
46 which should reflect the *moral* judgment on the importance of both types of errors.
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53 In Laudan's view, the role of the criminal law system is to accommodate the part of
54 the social contract regarding the correct distribution between false positives and false
55 negatives.⁵ The confidence he has in how productive the standards of proof are in this
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⁴ See Laudan, 2006; Laudan, 2007; Laudan, 2011; Laudan, 2016; Laudan & Saunders, 2009.

⁵ Laudan, 2011; Laudan & Saunders, 2009.

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3 respect contrast with his vehement repudiation of almost every exclusionary rule.⁶ In
4 any case, for a criterion to be a genuine SoP, it should be defined in epistemic terms, and
5 be a threshold of the right kinds of reasons, to wit: epistemic reasons, that is, evidence.
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9 It is common to recognize that at best, pure epistemology only provides a finite set
10 of criteria to determine the best among several concurrent hypotheses or explanations.
11 This amounts to deploying an ordinal comparison.⁷ However, 'hard-core' epistemology
12 is not the appropriate discipline to evaluate the moral significance of potential errors,
13 nor can it provide an adequate *ratio* of distribution between them. In other words,
14 epistemology, fails to provide reasons for action. Instead, it seems to be restricted to
15 epistemic reasons and to reducing global error.⁸ The thesis defending the *existence* of a
16 hard-core in epistemology is quite controversial. It supposes the possibility of a kind of
17 *epistemic view from nowhere*, which one can check objectively to see whether a set of
18 (exclusively) epistemic reasons are sufficient to justify a belief.⁹ Therefore, there would
19 be a purely epistemic criterion of completeness for epistemic justification.
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28 The controversial character of this thesis lies in that it is not plausible to conceive a
29 criterion of completeness for epistemic justification which is independent of action. On
30 one hand, BELIEF itself is conceptually related to action, at least according to some
31 philosophical conceptions. Every belief entails a disposition for certain actions,¹⁰ so
32 completeness of epistemic justification would be a function of what actions every
33 particular belief is a disposition for, as well as of its possible consequences. Consequently,
34 there would be no place for a purely epistemic criterion of complete epistemic
35 justification: completeness depends at least in part on *practical* considerations. On the
36 other hand, even if understanding BELIEF as being inert (i.e. a propositional attitude
37 independent of every possible action) were plausible, in most cases accepting factual
38 propositions as being true blazes a trail for action: ranging from assertions about things
39 one believes, to any other non-linguistic action undertaken under the assumption that
40 the proposition believed is true. Again, completeness of epistemic justification would be
41 a function of the action every particular belief is blazing a trail for. Consequently, there
42 is no place for a purely epistemic criterion of complete epistemic justification. On the
43 contrary, having sufficient epistemic reasons (i.e. evidence) depends at least in part on
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57 ⁶ Laudan, 2006.

58 ⁷ See Harman, 1965; Lipton, 1991; Pardo & Allen, 2008. Cfr. Laudan, 2007.

59 ⁸ Laudan, 2006, § 5. See also Stein, 2005, p. 13.

60 ⁹ See Alston, 1989 [1985], pp. 82-83; Montmarquet, 2007.

¹⁰ See Haack, 2010.

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3 the practical context and ultimately entails a practical decision.¹¹ To decide if p is proven
4 in a certain context in which if a person accepts p he or she will do ϕ is the upshot of a
5 practical judgment regarding the importance of the possible negative consequences of
6 doing ϕ mistakenly because p is false.
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11 Our ordinary talk of someone's being 'completely justified' in believing
12 something is highly context-dependent; it means something like: 'in the
13 circumstances –including such matters as how important it is to be right about
14 whether p , whether it is A's particular business to know whether p , etc., etc.–
15 A's evidence is good enough (supportive enough, comprehensive enough, secure
16 enough) that he doesn't count as having been epistemically negligent, or as
17 epistemically blameworthy, in believing that p '. This may be represented by 'A
18 is completely justified in believing that p ', which will refer to a context-
19 dependent area somewhere vaguely in the upper range of the scale of
20 justification. Its vagueness and context-dependence is what makes this ordinary
21 conception useful for practical purposes (and for the statement of Gettier-type
22 paradoxes).¹²
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29 Nevertheless, we have seen that in the legal procedural context, judges or jurors
30 (depending on the system) must make decisions regarding the sufficiency of the evidence
31 in order to accept a concrete proposition, and then on this basis, *to act* by either
32 convicting or acquitting the defendant. Thus, in the legal context, hard-core
33 epistemology would be ineffective in guiding triers of fact when making their decisions
34 pertaining to the sufficiency of the evidence. There are two possible options: the first
35 one would be allowing every trier of fact to decide by him or herself whether a set of
36 evidence is good enough to undertake the action at hand in each single (*token*) case. In
37 other words, evaluating the moral acceptance of convicting (or not) in a certain case *in*
38 *the light of a particular body of evidence* would be a legal power conferred to every single
39 trier of fact; the second option would be to set general and objective standards of proof
40 for different kinds of cases (*type-cases*), which would imply making the epistemic
41 exigency of every SoP consistent with (or a reflection of) an *a priori* evaluation regarding
42 the risk of error involved in every different *type-action* considered. Here, the moral
43 judgment of whether to convict or not in certain cases *in the light of a singular objective*
44 *threshold of evidence* would be the underlying justification of a general rule: the SoP.
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59 ¹¹ See Walen, 2015.

60 ¹² Haack, 2009 [1993], pp. 133-134.

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3 Laudan is a faithful defender of the second strategy and a fierce critic of the first in
4 equal measure. He believes that in the legal context, every decision on the sufficiency of
5 evidence should be preceded, and guided, by a previous enactment of an objective SoP.
6 This brings us to what Laudan calls the ‘soft-core’ of epistemology, where an *a priori*
7 moral judgment underlies the choice of how demanding the SoP should be in order to
8 decide if *p* is proven in a certain legal context, and to convict on that basis. This
9 judgement recognises the importance of the possible negative consequences of
10 convicting (or acquitting) mistakenly due to *p*’s being false while taken as proven (or
11 true while taken as not proven). According to this judgment, the particular threshold of
12 evidence morally fits making this decision in certain *type* cases.
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20 Nowadays it is usual to assume that the criminal SoP must reflect the moral judgment
21 that convicting the innocent is worse than acquitting the guilty.¹³ As Laudan asserts,
22 the “collective decision” indicates a clear preference for false acquittals over false
23 convictions. As mentioned earlier, one of his greater worries in this respect is the lack
24 of any foundation for a particular *ratio* of distribution, especially for Blackstone’s *ratio*.
25 How many false acquittals is a society really willing to accept? How many is it morally
26 acceptable or desirable to tolerate?
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32 For Laudan, a well-founded SoP should have certain necessary features: to wit, its
33 height should be settled in a nonarbitrary way; it should incorporate *all* the benefit of
34 the doubt that we consider appropriate to give the defendant; it should guarantee the
35 acceptable outcome of errors over the long run; and most importantly for present
36 purposes, it should “unlike BARD, be cashed out in non-subjectivist terms.”¹⁴
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41 For a SoP to be a genuine standard *of proof*, the threshold should be set exclusively
42 in *epistemic terms*. It should not depend on the jurors’ subjective evaluation of guilt, “but
43 on the establishment by the prosecutor of a powerful inferential link between the
44 evidence presented and the guilt of the accused.”¹⁵ In other words, even if a value
45 judgment on a *fair* distribution of error underlies the rule, the rule will count as an
46 authentic SoP if, and only if, that value judgment is translated into an objective
47 threshold of epistemic reasons. In order to have a genuine SoP we would need to make
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57 ¹³ What must truly be reflected is that judgement is the criminal procedural system as a whole, and that
58 the SoP is just one of many tools used. However, because of the way Laudan sets out the argument, we
59 can reduce it here to the SoP.

¹⁴ Laudan, 2006, p. 64. See also Ferrer Beltrán, 2018.

¹⁵ Laudan, 2006, p. 81

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3 a moral judgment regarding the desirability of a particular distribution of error which
4 would then need to be *expressed* using epistemic criteria alone.¹⁶
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7 8 2 BARD's first conviction: nuances of subjectivism and the confusion 9 thesis 10

11 In 2003, Larry Laudan published an illuminating essay,¹⁷ many of the conclusions of
12 which were included in the second chapter of the book he published three years later.¹⁸
13 In both works Laudan points out that BARD constitutes an empty formula, both as an
14 epistemic threshold of evidence and as an expression of a particular moral *ratio* of error
15 distribution. This is especially because of its radical subjectivism.
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19 Although Laudan does not formulate the point in exactly this way, I believe we can
20 distinguish a few nuances in this subjectivism. Indeed, Laudan begins his battle against
21 BARD by setting down a repertory of explanations and interpretations of the formula
22 made by judges and jurists in the United States throughout history, registering the
23 following interpretations:
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- 28 a. BARD as that security of belief appropriate to important decisions in one's
29 life;
 - 30 b. Reasonable doubt as a doubt that would make a prudent person hesitate to
31 act;
 - 32 c. BARD as an abiding conviction of guilt;
 - 33 d. Reasonable doubt as a doubt for which a reason could be given;
 - 34 e. BARD as high probability;
 - 35 f. BARD as a self-evident notion.
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43 This shows that before deciding the case, there is a main type of subjectivism related
44 to BARD when selecting one interpretation or explanation among those available. He
45 states that "beyond reasonable doubt, is abysmally unclear to all those – jurors, judges,
46 and attorneys – whose task is to see that those standards are honoured."¹⁹
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52 ¹⁶ I am sceptical of this. I think that expressing (and carrying out) a value judgment of distribution of
53 errors by means of epistemic criteria of justification is conceptually impossible. This is because the
54 saturation of epistemic criteria of justification itself depends on a context-dependent practical judgment,
55 as already mentioned. If this is so, then, to use epistemic terminology in general rules would be useless.
56 In each single case, the trier of fact needs to evaluate if the epistemic criteria employed by the allegedly
57 SoP is sufficiently fulfill in the light either of the evidence of the case and of the action to be undertaken,
58 and any possible consequences.

59 ¹⁷ Laudan, 2003.

60 ¹⁸ Laudan, 2006.

¹⁹ Laudan, 2006, p. 4

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3 In addition, there is no reason to think that these alternative explanations are
4 exhaustive. Thus,
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7 [w]hat we face are not different glosses of the same notion but different
8 conceptions of the level of proof necessary to convict someone of a crime. To
9 make matters worse, courts have faulted all these definitions as wrong,
10 misleading, or unintelligible.²⁰
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14 However, interpretation is not the only, nor the most important problem. The main
15 problem is not the coexistence of different explanations of BARD in legal criminal
16 practice, nor the coexistence of different conceptions of the level of proof, but rather that
17 they are not genuine conceptions of *proof*, given that the threshold is not defined in terms
18 of epistemic reasons at all, but merely as the particular state of mind the triers of fact
19 must find themselves experiencing. For this reason:
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25 ... the criteria they offer are purely subjective, they cannot address the question
26 about the rationality of the jurors' confidence or lack of confidence in the guilt
27 of the accused. That discrimination between rational and irrational doubts can
28 never be resolved if one remains focused exclusively at the level of the jurors'
29 degree of conviction.²¹
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33 There could have been *good* interpretations of BARD, making it a real standard of
34 proof, and a genuine epistemic threshold of evidence; but Laudan argues that the U.S.
35 system has been historically out of order in this respect. Every explanation of BARD
36 leads to an uncontrollable subjectivism: Which decisions are *important* in human life?
37 When *should a person hesitate*? How do we determine what makes a person *prudent*? What
38 does it mean to *be certain* in an abiding way?
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44 In light of these questions, one of the above interpretations is particularly relevant
45 to our aim: that which interprets BARD as a high degree of confidence in terms of
46 probability. According to Laudan, this interpretation is much more popular among legal
47 scholars and the public than among judges.²² Nevertheless, it is crucial to our ends for
48 two reasons: firstly, according to Laudan's lessons, it is an interpretation that leads
49 BARD to an unavoidable subjectivism, or rather, arbitrariness regarding the sufficiency
50 of evidence. On the other hand, Laudan adopts probabilistic understanding of the SoP
51 as an "heuristic hypothesis" to develop a semi-independent line of argument, namely, the
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59 ²⁰ Laudan, 2003, p. 313. Also, cfr. Lillquist, 2002.

²¹ Laudan, 2003, p. 320.

²² Laudan, 2003, p. 310

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3 argument trying to elucidate the actual *ratio* of false positives and false negatives the
4 U.S. criminal system generates by applying BARD. I will now discuss the first point,
5 leaving the second for §3.
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8 Although it is not the only way to understand ‘probability’, Laudan takes for granted
9 that when this locution is used to explain a SoP, it is understood as a specific degree of
10 confidence where complete subjective certainty is tantamount to the top of the scale: a
11 probability of 1.0.²³ This should be enough to conclude that, if understood as such,
12 BARD – or any other SoP – is not a threshold of genuine epistemic reasons, but rather
13 a distortion of one.
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19 In his first piece on BARD, Laudan only skimmed the surface of the ‘subjectivity
20 argument’ regarding the probabilistic interpretation of the formula. He stops right after
21 conjecturing that the refusal of this interpretation among judges and the “shabbiness”
22 of the arguments supporting that refusal are the result of their worries about not making
23 “an explicit admission that wrongful convictions will inevitably occur.”²⁴ To recognize
24 that evidence sufficiency could be reached after achieving a degree of confidence less
25 than complete certainty would be to recognize that innocent people can be convicted,
26 and this would delegitimize the whole legal system. Even if complete certainty is
27 impossible in any human affair, which makes errors unavoidable, hypocrisy seems to call
28 for concealment.
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36 The fact that the probabilistic interpretation of BARD leads to uncontrollable
37 subjectivism becomes clear in Laudan’s writings a few years later, not when specifically
38 discussing BARD, but when discussing the possibility of fixing a SoP by means of the
39 estimation of probabilities. Laudan rejects this possibility stating that “any probabilistic
40 SoP will suffer from the same problems of subjectivity that (...) proved to be among the
41 principal causes of BARD’s undoing.”²⁵
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51 ²³ “When it is said that the degree of the probability relation is the same as the degree of belief which it
52 justifies, it seems to presuppose that both probability relations and degrees of belief can be naturally
53 expressed in terms of numbers, and then that the number expressing or measuring the probability relation
54 is the same as that expressing the appropriate degree of belief” (Ramsey, 1954, pp. 160 [176-177]).
55 Regarding this peculiar understanding of ‘probability’ see also J. L. Cohen, 1989; de Finetti, 1993 [1973],
56 p. 215; von Wright, 2001 [1951], p. 169.

57 ²⁴ Laudan, 2003, p. 311. Cfr. Tribe, 1971, pp. 1372-1373.

58 ²⁵ Laudan, 2006, p. 77. Also see Clermont, 2015; Dahlman, 2017; DeKay, 1996; Dhami, 2008; Kaplow,
59 2011; Kaplow, 2012; Nance, 2001; Nance, 2016; Nance, 2018; Newman, 2007; Picinali, 2012; Tillers &
60 Green, 1988. This discussion cannot be discussed even minimally here, and it is unnecessary. We can
suppose Laudan is right on this point.

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3 Laudan provides two reasons to support this claim. The first is the difficulties in
4 assigning specific probabilities to beliefs where the events at stake are non-statistical
5 such as the events to be decided, not only in judicial processes, but also in other areas of
6 empirical investigation.²⁶
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10 Indeed, if the criminal SoP were defined explicitly in terms of probabilities, I
11 would be obliged to make such a determination. This, in general, is not
12 something that I or most jurors could do with any degree of reliability.²⁷
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16 The second, and most important, reason is because a SoP formulated in terms of
17 probabilities, including BARD, is not a standard *of proof* at all. Laudan emphasises that
18 this is at the core of its *confusion thesis*:
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21 Not to mince words, this is a travesty system of proof. A SoP – in every area in
22 which proof is called for outside the law (including natural science, clinical trials
23 in medicine, mathematics, epidemiological studies, and so on) – is meant to tell
24 the investigator or inquirer when she is entitled to regard something as proved,
25 that is, when the relation of the evidence or the premises to the sought
26 conclusion warrants the acceptance of the conclusion as proven for the purposes
27 at hand. In the criminal law, by contrast, that issue is either wholly ignored or
28 shamelessly finessed. Instead of specifying that the juror's level of confidence in
29 guilt should depend on whether a robust proof has been offered, the criminal
30 law makes the SoP parasitic on the inquirer's (that is, the juror's) level of
31 confidence in the defendant's guilt. We have a proof, says the law, so long as
32 jurors are strongly persuaded of the guilt of the accused (or so long as they will
33 assign it a probability greater than x , where x is the probabilistic SoP). Never
34 mind how they arrived at their high confidence, we have a proof. This gets
35 things precisely backwards.²⁸
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44 Under this understanding of BARD, Laudan's argument is sound as there is no
45 guarantee that the degree of confidence felt by triers of fact (or whoever else) covariates
46 with the evidence he or she has at hand. To corroborate this covariation, which is always
47 contingent,²⁹ it is essential to contrast the available evidence. However, the reverse is
48 not valid: the degree of confidence in the truth of a proposition held by a trier of fact
49 says nothing about the evidence he or she actually possessed. This kind of distortion
50 swaps the threshold of evidence for a state of mind which should have been justified by
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58 ²⁶ See also L. J. Cohen, 1977, p. 74. Cfr. Haack, 2014a, pp. 17-18.

59 ²⁷ Laudan, 2006, p. 77.

60 ²⁸ Laudan, 2006, p. 79.

²⁹ See Burton, 2008.

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3 an independent epistemic body of evidence. As a result, sufficiency of proof turns into
4 an uncontrollable (and probably irrational) state of mind, and is compatible with the
5 absolute absence of any real proof:
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9 The system offers the juror no neutral or objective standard of proof, saying
10 instead that the intensity of her subjective confidence in guilt determines
11 whether she should convict or acquit the defendant. Making matters worse, the
12 system puts no checks on how the juror goes about arriving at that subjective
13 level of confidence. She is given wholly free rein to make of the evidence what
14 she will and is required at the end only to affirm, if she votes to convict, that she
15 is genuinely persuaded that the accused committed the crime (...). What we face
16 here is not a SoP but a pretext – and a flimsy one at that – for a conviction or
17 for an acquittal.³⁰
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23 I am of the opinion that there is a more optimistic way of understanding BARD, to
24 wit: as a methodological requirement for triers of fact. In my view, BARD (and similar
25 formulas) can be understood as a requirement to (a) assess the evidence in an
26 epistemically rational way, and (b) to determine if the evidence so assessed is good
27 enough to convict the defendant in the case at hand. Surely, decisions about the
28 completeness of epistemic justification would now fall within the province of every
29 single trier of fact in each singular case. If one understood practical evaluation as being
30 a necessarily subjective matter, then a subjective decision of the trier of fact would
31 always be carried out by declaring certain propositions as proven.³¹ But this would not
32 mean that anything goes when it comes to decisions about the sufficiency of the evidence.
33 At least the assessment of evidence, the first part of the whole affair, would be always
34 rationally controllable according to epistemic criteria. The publicity of trials and maybe
35 also the requirement to explicitly justify judicial decisions would be a way to verify if
36 there actually was evidence, i.e. genuine epistemic reasons; and if inferences were
37 correctly drawn. If this is sound in light of BARD, the concept of proof, i.e. the predicate
38 ‘proven’ applied to a factual statement, is to be understood as a *thick ethical concept*.³² To
39 say that something is proven is to say that there is evidence that allows certain epistemic
40 inferences, which is the descriptive side of the affair, and that this evidence is sufficient
41 in order to take responsibility for convicting the defendant in that particular case, given
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56 ³⁰ Laudan, 2006.

57 ³¹ For additional nuances of subjectivity regarding BARD, see Lee, 2016; Lee, 2017.

58 ³² See Williams, 2011, pp. 143-144. See also Blackburn, 1992; Dancy, 1995; Eklund, 2011; Gibbard, 1992;
59 Gibbard & Simon, 1992; Kirchin, 2013; A. W. Moore, 2006; Payne, 2005; Scheffler, 1987; Tappolet, 2004;
60 Väyrynen, 2011; Väyrynen, 2012; Väyrynen, 2013. Indeed, according to what I have said before, I think
that this is always the case when someone declares some proposition as *completely* justified, *proven*.

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3 such and such potential consequences should the decision be wrong, which is the
4 evaluative side of the affair. How to conceive the nature of this evaluative side of the
5 predicate (i.e. the one about sufficiency of evidence), most certainly depends on a great
6 deal of further meta-ethical assumptions.³³
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10 This is not discussed at this point, however. Laudan's *failure thesis* needs to be
11 analysed in order to clearly identify its most problematic components. To do this, we
12 can assume that BARD leads to radical subjectivism. In fact, according to Laudan,
13 BARD is open to a number of different subjective translations. These translations
14 transmute any trace of a genuine SoP into a parody of a system of proof. This
15 particularly happens when there is an attempt to formulate the SoP in terms of
16 probabilities:
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23 So long as definitions of BARD fail to address the robustness of the evidence
24 and so long as they remain fixated purely on the strength of the juror's belief,
25 BARD will remain open to the devastating criticism that it confuses mere
26 strength of belief (which may be wildly irrational) with warranted belief.³⁴
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30 Let us assume, for the sake of argument, that Laudan's *confusion thesis* regarding
31 BARD is sound.
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33 3 BARD's second conviction: invalid verdicts, the guarantee of false 34 acquittals and the failures thesis 35 36

37 One of Laudan's most persistent (and wholly justified) worries during his years of
38 intellectual work devoted to the epistemology of Criminal Law has been the absence of
39 empirical evidence regarding the real *ratio* of errors the legal criminal system produces
40 when deciding on facts. He points out that no serious empirical research method can be
41 indifferent about its own reliability, or about how often it leads to error. Nevertheless,
42 sadly, the legal system is both simultaneously ignorant and indifferent regarding these
43 matters.³⁵
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49 Under these disconcerting circumstances, Laudan devised a way of waking citizens
50 up by making the real rate of error explicit. As a result, he found that this rate deviated
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55 ³³ This triggers a large number of issues which cannot be dealt with in this framework. I have elaborated
56 on this in Dei Vecchi, 2014. See also Walen, 2015. The idea of understanding BARD as requiring a method
57 of reasoning has been recently defended by Picinali, 2015. See also Bayón Mohino, 2009; González Lagier,
58 2018; Haack, 2014b; Lillquist, 2002; Stein, 2005, pp. 117-119.

59 ³⁴ Laudan, 2003, p. 330.

60 ³⁵ "This ignorance of, and indifference to, error rates is especially bizarre given that more often hangs on
the outcomes of criminal trials than on many other forms of empirical inquiry": Laudan, 2016, p. xiii.

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3 completely in view of the enormous number of false acquittals the system produces. As
4 stated, the Blackstone's *ratio* is hypothetically the underlying reason behind BARD.
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6 Laudan finds that the number of false acquittals the system actually produces
7 enormously exceeds even the one the Blackstone's *ratio* would tolerate. This ratification
8 induces him towards a fierce political agenda requiring the revision of several criminal
9 and procedural rules he takes as responsible for those errors. He particularly seeks a
10 decrease in the evidence exigence in order to convict.
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15 In his 2006 book, Laudan took empirical data from a book by Kalven and Zeisel
16 (K-Z)³⁶, pointing out that their data indicates that BARD generates a great many *invalid*
17 *verdicts*. For Laudan, an invalid verdict is a significant type of error, and he differentiates
18 this from a false verdict, which can occur in one, or both, of two ways:
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23 a) The trier of fact may give more or less weight to an item of evidence than it
24 genuinely merits, or b) she may misconceive the height of the standard of proof.

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26 In either case, the verdict is inferentially flawed.³⁷
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28 Visibly, a verdict can be valid (i.e. be justified inferentially in light of the epistemic
29 threshold) and yet, despite that, be false.
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32 Data taken from K-Z's research with regard to a group of judges, indicate that –in
33 the opinion of that group of judges– juries falsely acquitted defendants approximately
34 20 percent of the time. Laudan recognizes that this does not mean that 20 percent of
35 acquitted defendants were guilty, but rather, that in the opinion of judges, 20 percent of
36 acquittals were cases of invalid verdicts; cases in which conviction was actually justified
37 according to the SoP; however, juries failed to realize this. In fact, Laudan suggested
38 that: “[w]hile this is only anecdotal evidence, it is impressive for all that, suggesting
39 that (if judges are right) one in five acquittals at trial is an invalid verdict.”³⁸
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46 More recently, he has been trying to go further to verify the rate of false verdicts,
47 especially the kind of false verdicts particularly despised among jurists and judges,
48 namely, false (even if valid) acquittals. Until this attempt, he had recognized that, “[i]n
49 any event, for now, the frequency of false acquittals is unknown (or better, barely known,
50 since there are plausible conjectures one can make about it).”³⁹
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58 ³⁶ Kalven & Zeisel, 1966.

59 ³⁷ Laudan, 2006, p. 13.

60 ³⁸ Laudan, 2006, p. 71.

³⁹ Laudan, 2011, p. 203.

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3 Laudan developed those conjectures in his subsequent work in order to estimate the
4 rate of false acquittals the U.S. legal system generates. To that aim, he developed a
5 combination of conceptual analysis and empirical data analysis departing from a series
6 of statistical research results concerning the violent crimes situation in the U.S. in
7 2008.⁴⁰ As mentioned earlier, despite the broad range of Laudan's work, I am centering
8 on false acquittals *at trials*. In these cases, Laudan holds that the system produces
9 between 75% and 80% of false acquittals within the total number of acquittals at trial.
10 To justify this claim, he takes several argumentative steps.

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13 He starts from a thesis of "conventional wisdom", according to which, the majority
14 of defendants acquitted at trial are "probably factually guilty"⁴¹:

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17 ... these defendants wouldn't even be going to trial unless *the prosecutor believed*
18 that he had a *strong chance* of persuading jurors that these defendants were guilty
19 beyond a reasonable doubt.⁴²

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22 This conventional wisdom, Laudan says, enjoys a *prima facie* plausibility, even if it
23 does not involve empirical evidence. This plausibility lies in a speculation about the
24 prudential rationality of prosecutors, according to which,

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26 [e]ven if the prosecutor sometimes overestimates the strength of his case
27 against the defendant, it seems reasonable to suppose that most defendants
28 winning an acquittal at trial have an apparent guilt in the range from about 70%
29 to 90%. In such circumstances, that means, at minimum, either that the
30 prosecutor is an obscenely bad judge of the strength of his case or that the jury
31 concluded that the defendant is probably guilty but that the evidence is too weak
32 to warrant a conviction. One's initial inclination in such circumstances is to
33 suppose that at least half of those who are acquitted at trial actually committed
34 the crime(s) they are charged with but the evidence allowed room for a rational
35 doubt about defendant's guilt.⁴³

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38 According to Laudan, this means that if the SoP had been lower than it actually is,
39 the rate of false negatives at trial would have also been cut in proportion. However, this
40 conclusion results from surprisingly equating the *degree of confidence* of the (presumably

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54 ⁴⁰ See Laudan, 2016, pp. x, 5, 48, and notes 104-109. Among the statistical data Laudan refers to, the
55 most important to our goals here are: Bureau of Justice Statistics (BJS), *Felony Defendants in Large Urban*
56 *Counties, 2009* (<https://www.bjs.gov/content/pub/pdf/fdluc09.pdf>); BJS (2009), *Criminal Victimization,*
57 *2008* (<https://www.bjs.gov/content/pub/pdf/cv08.pdf>).

58 ⁴¹ Laudan, 2016, p. 59.

59 ⁴² Laudan, 2016, p. 57; emphasis added. Along the same lines, but long beforehand, see Packer, 1964, pp.
60 12-13.

⁴³ Laudan, 2016, p. 58.

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3 prudentially rational) prosecutor (e.g. 70%) with the degree of genuinely epistemic
4 appearance of guilt (which would then be 70%). In other words, Laudan takes for
5 granted, somewhat surprisingly, that the degree of prosecutors' confidence covariates
6 with the evidence they actually had at hand.
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10 Fortunately, the argument does not rest on speculation born from a mix of
11 conventional wisdom and a conjecture as to what degree of confidence would be
12 prudentially rational for a prosecutor to achieve before bringing a case to trial. Indeed,
13 the "hunch" is underpinned by empirical data, or at least Laudan yearns for this. He says
14 that there are "two powerful reasons for thinking that this simplistic assumption
15 understates the frequency of guilt among those acquitted at trial."⁴⁴ These reasons are
16 analysed below.
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22 In a first step, Laudan resorts to empirical data from Scotland, where BARD is in
23 force, but there are three possible criminal verdicts rather than just two. After a trial, a
24 defendant in Scotland could be declared "guilty," "not guilty," or "not proven." This last
25 verdict plays a crucial role in Laudan's goal, given that it could be dictated at any time
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- 30 (i) the jury is persuaded that the defendant is factually guilty (that is,
31 $p(\text{guilt}) \geq 0.5$) but (ii) the jury is not convinced of that guilt beyond a reasonable
32 doubt.⁴⁵
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35 As stated in a study of criminal prosecutions carried out by the Scottish government
36 between 2005 and 2006, 71% of defendants tried for homicide and acquitted during that
37 term received a verdict of "guilt not proven".⁴⁶ That means, Laudan says, that "about 7-
38 in-10 acquittals for murder in Scotland involved defendants *regarded by the jurors as*
39 *having probably committed the crime.*"⁴⁷ Let us assume, as Laudan does, the implausible
40 expectation that 71% of not-proven cases is a relevant sample, and extensible to criminal
41 cases (for violent crimes) decided in the U.S. during 2008. Or to go even further, let us
42 assume that the sample is relevant with regard to all the previous and later history of
43 any criminal legal system governed by BARD. Notwithstanding these assumptions,
44 before continuing, let me be clear about the reasons why they are implausible. First of
45 all, in Laudan's writings there is neither an argument nor empirical proof to any extent
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56 ⁴⁴ Laudan, 2016, p. 58.

57 ⁴⁵ Laudan, 2016, p. 58.

58 ⁴⁶ Scottish Government Statistical Bulletin: Statistical Bulletin Criminal Justice Series: CrJ 2006/3:
59 Criminal Proceedings In Scottish Courts, 2004/5
(<https://www.gov.scot/Publications/2006/04/25104019/11>).

60 ⁴⁷ Laudan, 2016, p. 58; emphasis added.

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3 in favour of the thesis that a “not proven” verdict entails a persuasion of jurors ≥ 0.5
4 regarding the factual guiltiness of the defendant. In fact, because of the subjective nature
5 of the enterprise, one could also think that “not proven” is being understood (or perhaps
6 misunderstood) by jurors as being “anything between 0.01 and 0.89” (supposing BARD
7 is equivalent to 0.9). Under this interpretation, “not guilty” would be a situation in which
8 there is evidence in favour of the proposition that the crime has not been committed, or
9 in support of the proposition that it was not the defendant who did it. In other words, a
10 not-guilty verdict would be tantamount to a positive declaration of innocence.⁴⁸ Second,
11 using Scottish statistics to interpret U.S. ones is unacceptable without further
12 justification, and Laudan fails to provide any argument in this respect. Further
13 justification should show the absence or irrelevance of any idiosyncratic, cultural,
14 economic, social or other relevant differences between the U.S. and Scotland regarding
15 criminality, the criminal legal system and the way each system is understood from the
16 “internal point of view”. Both problems impinge on Laudan’s argument. However, I will
17 say no more about them here, mainly because I think they are not the most significant
18 problems when it comes to defending his claim.⁴⁹

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21 In a second step, Laudan again refers to the “monumental study” by K-Z, but now
22 not as an indicator of the rate of *invalid* verdicts, but as empirical evidence of the rate of
23 false acquittals at trial. Part of this study consisted in asking judges about every trial (in
24 total 1,191 cases from the 1960s) which resulted in an acquittal. Following Laudan’s
25 reconstruction, the researcher’s question was,

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... whether, in the opinion of the judge, the case was ‘close’ (meaning the
apparent guilt of the acquitted defendant verged on proof beyond a reasonable
doubt) or whether it was a ‘clear’ acquittal (meaning that defendant’s apparent
guilt was well below the BARD standard).⁵⁰

When interviewed, the judges responded that in their opinion, only 5% of the cases
resulted in ‘clear’ acquittals, while 52% were ‘clear for conviction’. The ambiguity of the
word ‘conviction’ is suggestive here: even if Laudan is using it in reference to a guilty
verdict, given the nature of the study the word should be understood as a degree of
confidence, for what jurors are talking about is their own degree of confidence in the

⁴⁸ Nonetheless, fortunately for Laudan’s argument, a recent study conducted by the Scottish Government gives *some* plausibility to his conjecture, even if concluding generally in that there are important inconsistencies in a juror’s understanding of what the “not proven” verdict means. See Ormston, Chalmers, Leverick, Munro, & Murray, 2019, §§ 5 and 6.

⁴⁹ For criticism regarding the way Laudan uses statistics see Gardiner, 2017, §§ 3 and 4.

⁵⁰ Laudan, 2016, p. 59.

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3 culpability of (presumably erroneously) acquitted defendants. Let's take, again
4 implausibly, these interviews as a relevant sample extensible to our framework: a total
5 of 45,000 U.S. criminal cases (for violent crimes) decided in 2008. What makes this
6 assumption implausible partially coincides with the issue of inappropriately using
7 Scottish statistics to interpret the U.S. situation mentioned above. Here, too, further
8 justification is needed to show that statistics on the U.S. criminal situation in the 1960s
9 should be read at face value in order to draw inferences which fit with particular crimes
10 and judgments in the U.S. in 2008.

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17 Implausible or not, according to Laudan, this counts as evidence in favour of the
18 conventional thesis, according to which, most defendants acquitted in trial are
19 materially guilty. Moreover, the K-Z data, transposed in time to 2008, leads to the
20 conclusion that 85% of the people acquitted via trial that year could be considered
21 materially guilty, and thus, that those acquittals could be considered *errors*. The
22 argument supporting this conclusion appears thus:

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Given that the U.S. statistics from 2008 indicate that about one third of the trials for
violent crimes resulted in acquittal, this "would seem to entail [bringing in judicial
answers to K-Z study] that only about 15% of the acquittals are 'clearly' acquittals,
while some 85% are, in the opinion of the presiding judge, close cases."⁵¹

This seems to be so, because if 5% of the cases are clear acquittals (according to 1960s
K-Z interviews), it is possible to conjecture (Laudan seemingly deems) that only 2,250
violent crime cases decided in 2008 should have been clear cases to acquit (5% of 45,000).
Nevertheless, the number of acquittals was 15,000. *Ergo*, Laudan apparently holds, only
15% of acquittals were clearly decided cases. What about the remaining 85%? In virtue
of the K-Z study, Laudan asserts that "we can assume" that "more than 12k of defendants
are close enough to warrant an assumption that these are probably factually guilty, even
if their *apparent guilt* fails to eliminate all reasonable doubts."⁵²

The following step in the argument is to combine Scottish data with the K-Z study
results in order to get a mid-point and then apply this to the 2008 U.S. statistics:

... it seems fair to say that most of those acquitted at trial of a violent crime were
nonetheless regarded by the jurors and judges as probably guilty *and thereby* are
reasonably assumed to be false negatives. Accordingly, I shall hereafter assume

⁵¹ Laudan, 2016, p. 59.

⁵² Laudan, 2016, p. 59; emphasis added.

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3 that, among those 15k acquittals that emerged in trials for violent crimes in the
4 US in 2008, some 11.2k (75%) were false negatives.⁵³
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7 This “fair assumption” governs all of Laudan’s quoted work, whereas the “verification”
8 of the high rate of false acquittals the system produces (between 75% and 80% of
9 acquittals after trial), is a banner against BARD’s formula *given* its unjustified high
10 exigence of *proof* (among other rules which surely benefit defendants).
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14 Let us analyse Laudan’s argument in depth.
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16 The first thing to consider is that his argument takes a triple presupposition as being
17 paramount, i.e., that there *is* a SoP in force, that this SoP is BARD, and that BARD
18 equals a confidence level of 90% or greater.⁵⁴ Taking the first step from this triple
19 presupposition, the argument could be reconstructed as follows:
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23 (a) Most fact finders in the U.S. criminal legal system – as in the Scottish system –
24 who must decide whether to convict defendants (for violent crimes) believe that
25 the SoP they need to apply (i.e. BARD) demands a degree of confidence in guilt
26 tantamount to a likelihood of 90% (or above).
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33 ⁵³ Laudan, 2016, p. 59; emphasis added. He says later that “of 80% (12k out of 15k acquittals) among those
34 who were acquitted at trial” (Laudan, 2016, p. 65). The false acquittals rate is to be completed with the
35 rate of wrongly dropped charges. This is not part of the framework of this paper. Nevertheless, our
36 arguments can be easily applied to Laudan’s analyses of this phenomena, at least in part. Indeed, he
37 calculates the rate on the basis of interviews which ask prosecutors about their degree of confidence
38 regarding defendants’ guilt in cases where charges were dropped. Laudan believes that these interviews
39 lead to the conclusion that 56% of cases dismissed and dropped (for reasons that had nothing to do with
40 evidence) were probably factually guilty, on the basis of the subjective beliefs of officials. He concludes
41 that “we can reasonably suppose that the proportion of guilty among them would be about the same as
42 the proportion of guilty among those who go to trial.” This is because, as we have seen, 2/3 of defendants
43 that went to trial in 2008 had been convicted BARD and 75% or 80% of the remaining 1/3 were falsely
44 acquitted. Thus “[t]hat seems to provide a plausible rationale for saying that, among those defendants
45 who had the charges against them dropped for *non-evidentiary* reasons, approximately two-out-of-three
46 (and probably more) are highly likely to be guilty. Hence, we shall assume that about 37% to 38% (that is
47 two-thirds of the 56% of those whom were booted out of the trial system for non-evidentiary reasons) are
48 factually guilty (and, if they had gone to trial, would have been convicted)” (Laudan, 2016, p. 64).

49 ⁵⁴ Again, this seems to be supported empirically: a previous study asked judges and jurors in England
50 about the level of probability they consider BARD requires for conviction in a criminal trial. According
51 to (Laudan’s presentation of) those interviews, 1/3 of judges put the level between 70% and 90%, and
52 almost all the rest above 90%. Among jurors, 26% declare a willingness to convict on confidence below
53 70%, and 54% declare that the level of confidence required by BARD was 90% or more. See Laudan, 2006,
54 p. 47, quoting J. Cohen & Christensen, 1970. This assumption cannot be discussed here, mostly because
55 my argument would work even if the assumption were right. But in any case, it is worth mentioning that
56 there are very important reasons to doubt its correctness. See, for example, Lillquist, 2002, p. 112
57 (analyzing diverse empirical studies whose results are strikingly different), Hastie, 1993 (where studies
58 showing that popular understanding of BARD varies between 51% and 92%), and the recent analysis of
59 Walen, 2015, § 6 (distinguishing between the “customary” and the “practice” understanding of BARD;
60 and arguing (on the base of several empirical studies) that “a substantial number of jurors interpreted the
61 BARD instruction [the practice understanding] to allow conviction on weak evidence, evidence that
62 would not even satisfy the preponderance of the evidence standard for over half of the juries that
63 considered it”: Walen, 2015, p. 375).

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3 (b) Thus, the SoP in force demands a 90% probability of guilt to convict.
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5 (c) Combining K-Z's 1960s interviews and the Scottish rate of not-proven verdicts
6 from 2004/5 shows that between the 75% and 80% of trial acquittals, fact finders
7 had a level of confidence higher than 50%, but lower than 90% of probability in
8 the (finally) acquitted defendants being guilty.
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11 (d) *Ergo*, between 75% and 80% of defendants have been acquitted *in spite of the*
12 *appearance of guilt being higher than 50%* – the percentage that makes them *probably*
13 *guilty defendants*.
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16 (e) From there it follows (Laudan should be thinking) that 75% of acquittals in favour
17 of defendants whose appearance of guilt is higher than 50%, benefits materially
18 guilty defendants by letting them get away with the crime. This is so, given that
19 that person is *probably* guilty (over 50% likely), even if not *provably* guilty in light
20 of BARD.⁵⁵
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23 (f) The conclusion is that 75% of acquittals at trial are false acquittals and that this
24 is, at least to a certain extent, due to BARD's excessively demanding evidential
25 requirement.
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30 It is highly surprising that after cautioning us on the uncontrollable subjectivity of
31 measuring degrees of confidence in terms of probabilities, Laudan supports an entire
32 argument for a factual hypothesis almost exclusively pointing to judges' or jurors'
33 speculations or self-attributed degrees of confidence. For example, opinions on the
34 specific degree of confidence BARD demands; speculation regarding whether degrees of
35 confidence prosecutors needed in order to take a case to trial were (prudentially)
36 reasonable; judges or jurors self-attributing degrees of confidence regarding the
37 probability of people acquitted at trial being guilty; judges' or jurors' self-attributing
38 degrees of confidence by taking into account the *closeness* (the degree of confidence they
39 thought was demanded) to BARD in cases where they decided to acquit at trial; self-
40 attributing degrees of confidence expressed by not-proven verdicts in Scotland; and so
41 on.
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50 For present purposes, the most important point is (d), which states that BARD is
51 responsible for 75% (or 80%) of false acquittals due to its excessive demand for *evidence*:
52 "... even when the evidence is not skewed or unrepresentative of the crime, there is still
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60 ⁵⁵ See L. J. Cohen, 1977.

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3 plenty of scope for a verdict that is valid but not true. Indeed, the standard of proof
4 guarantees as much.”⁵⁶
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7 The problem is no longer the *validity* of the verdict, i.e. the danger is no longer that
8 the triers of fact can make a mistake in understanding or applying the SoP. On the
9 contrary, it is the objective evidential height of the standard which guarantees false
10 negatives when rightly applied. After explaining invalid verdicts in 2006, Laudan stated:
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14 It is essential to understand what is meant by “false acquittals” and “false
15 convictions” in the study in question. What Kalven and Zeisel found was not
16 that two of every ten acquittals were someone who was guilty but that two of
17 every ten acquittals, in the opinion of the judges, justified a conviction, that is,
18 satisfied the criminal SoP. Since that standard is quite high, we have every
19 reason to expect that false acquittals, as we are using that term – namely, the
20 acquittal of truly guilty defendants – happen far more often than the 20 percent
21 figure would imply.⁵⁷
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26 Thus, even if a verdict is valid, and considering the enormous number of false
27 acquittals that the argument of precedent ‘shows’, we can now say that:
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31 ... the overwhelming reason for most false negatives is not a flawed case made
32 by the prosecutor nor a lack of strong inculpatory evidence but the fact that, to
33 convict someone of a crime, our system generally requires that the jury must be
34 *unanimously persuaded of his guilt to a degree of near certainty* (proof beyond a
35 reasonable doubt) [...] Because the evidence profiles of many truly guilty
36 defendants fail to meet the exacting threshold of proof beyond a reasonable
37 doubt, such persons will receive a verdict of not-guilty (better expressed as ‘guilt
38 not proven’) even when most or even all of the jurors strongly believe them to
39 be the culprit.⁵⁸
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44 Viewed from this perspective, it is vividly clear that the current standard of
45 proof is too high. As I have *already shown*, the promiscuous acquittal of, or
46 dropping of charges against, many very probably guilty defendants (because
47 their apparent guilt is perceived as below the BARD standard) is generating
48 much more harm than the occasional conviction of innocent defendants does.⁵⁹
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52 The alleged verification of this flaw and of the number of errors it produces, i.e. the
53 *failure thesis*, constitutes an empirical basis for Laudan to encourage a reduction in the
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⁵⁶ Laudan, 2006, p. 13.

⁵⁷ Laudan, 2006, p. 70, note 14.

⁵⁸ Laudan, 2016, pp. 13-14; emphasis added.

⁵⁹ Laudan, 2016, p. 98.

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3 *epistemic* exigence of the SoP, and an elimination or reduction of procedural privileges
4 granted to defendants.⁶⁰ Indeed, given that BARD leads to an unbalanced number of
5 false acquittals, a lower threshold of proof would put us on the right track for reducing
6 errors globally, especially, false negatives. Again, according to Laudan, BARD has
7 caused and continues to cause many more false acquittals than Blackstone's *ratio* would
8 be willing to tolerate (i.e. BARD does not fit its underlying justification), and many more
9 than he (according to its *consequentialist thesis*) takes to be morally decent.⁶¹

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15 However, as I will try to show in the next section, the *failure thesis* is either clearly
16 inconsistent with the first conviction to BARD developed in §2, i.e. with the *confusion*
17 *thesis*, or, in any case, independently unacceptable. Note that even though Laudan
18 circumscribes his *failure thesis* to only a section of the U.S. criminal system, the *kind* of
19 argument he develops, and that I have reconstructed in this section, has a much greater
20 reach in that it could be reproduced for any other legal system, or section of a legal
21 system, by simply appealing to similar premises. Therefore, by showing that the
22 unacceptability of the claim inheres the *kind* of argument the *failure thesis* is an example
23 of, I will undermine not just its Laudan-US-violent-crimes version, but any other
24 attempt to ground a claim of "too many false acquittals" adducing these sort of premises.

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⁶⁰ "The object lesson seems to be clear: we are now utilizing a standard of proof much more demanding than it should be, since it leads to far greater risk of harm in aggregate than many lesser standards would. BARD (understood as a surrogate for about 90% confidence) would make sense as a standard of proof for violent crime just in case the harm done by a false conviction was about ten times greater than the harm done by a false acquittal. There is no way that such an assessment of harms can be plausible...": Laudan, 2016, p. 97.

⁶¹ The problem of the *consequentialist thesis* opens an independent line of thought in Laudan's worries. He displays these worries as a direct attack on every deontologist intent on fixing a SoP, and mainly going against Blackstone's *ratio*, as I have pointed out at the beginning of this paper. Conversely, assuming a metaethical utilitarian point of view and developing a complex calculus of (his own) undesirability of false negatives and false positives, Laudan tries to justify a brand-new fair *ratio*. For him, also, convicting an innocent person is worse than acquitting a guilty defendant, but the fair *ratio* would be of 1 false positive for every (less than) 2 false negatives. See Laudan, 2011; Laudan, 2016, ch. 4. I think this laudanian line of argument should also be carefully scrutinized, but this is not the moment to do it. Along these lines, Gardiner, 2017, analyses this a very seriously, and by a different path arrives at the same conclusion I am defending: "Laudan's consequence-based argument for reducing the standard is unsuccessful. Given doubts about statistics employed, the paucity of kinds of consequences considered, and the mistaken formula used to derive the new standard, we should conclude Laudan's argument fails. A consequence-informed approach to crime reduction is important, but Laudan's evaluation of the consequences does not establish the standard of proof is too high. Perhaps this is good news for advocates of consequence-based justifications of the standard of proof: if consequence-based calculations recommend standards of proof as low as 56 to 67%, this casts doubt on the consequence-based project. The standard is implausibly low and conflicts with our understanding of criminal justice. And if, as Laudan claims, an appraisal of the consequences suggests that Blackstone's 10:1 ratio of false acquittals to false convictions should be jettisoned in favour of something closer to 2:1, this suggests that consequences cannot be a good guide to criminal justice. Fortunately for advocates of the consequence-based approach, it appears that Laudan's estimations of the consequences are not close to accurate" (Gardiner, 2017, p. 236). Regarding justification of BARD see also Picinali, 2018.

4 Imperceptible crimes⁶²

Laudan's *failure thesis* rejection requires two steps. First, I will argue that arriving at the conclusion that BARD is the main cause of the false negatives produced by the system *because* of its high demand for evidence, essentially depends on the previous ascertainment of the precise *epistemic exigence* of the formula. Exactly the same thing should be said for the claim that some verdicts are invalid when BARD is applied wrongly. Nonetheless, Laudan's *confusion thesis* supposes that this ascertainment is hopeless. This is the core of the inconsistency between Laudan's theses, as previously stated. As I have already pointed out, this apparent inconsistency is relevant as it is a touchstone from where it is possible to see the requirements the *failure thesis* should fulfil in order to be suitable. In the second step I will argue that Laudan's thesis, which states that BARD produces too many false acquittals is in part a case of the wrong-sort-of-reasons fallacy, and is groundless.

4.1 An inexistent threshold cannot be too high: an inconsistency?

One way to determine if a SoP in force is epistemically too demanding would be to pre-identify the exact threshold of evidence the standard requires. However, according to Laudan's *confusion thesis*, this is not possible when the SoP in force is BARD. On one hand, it is an extremely ambiguous formula. On the other, and more relevant to our purpose, the usual understandings of the formula – as Laudan evinces – turned it into a travesty system of proof, a fake epistemic-criterion. This is what would happen, especially with attempts to articulate the standard in probabilistic terms. According to Laudan, these attempts are an illusion, not only due to the impossibility of quantifying degrees of confidence in contexts such as the legal process, but because the result of doing so is “fundamentally subjective”; “[a]nd nothing about it is more peculiar than the fact that it offers no free-standing standard of proof.”⁶³

What this has taught us is that any degree of confidence a judge or juror could express regarding the guilt of a defendant is compatible with a large amount of evidence, with a medium amount of evidence, and even with no evidence at all. In other words, no

⁶² I'm evoking the original title of Guillermo Martinez's novel *The Oxford Murders*, MacAdam/Cage, 2005.

⁶³ Laudan, 2006, p. 79; emphasis added.

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3 covariation between degree of confidence and degree of epistemic justification is
4 guaranteed.⁶⁴
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7 After all, the credulous among us are not likely to harbour doubts, even when
8 they should and the skeptics – especially if they are philosophers – are likely to
9 have lingering doubts no matter how powerful the proof. By using a standard
10 as amorphous as BARD, the state is essentially inviting triers of facts to trust
11 their gut instincts [...] In a society whose citizens are variously sure that the
12 Bible is divinely inspired and inerrant, that their children are uniformly smarter
13 than their teachers think, and that we will all be reincarnated in another body
14 after death, the existence of a high level of subjective confidence about x among
15 twelve ordinary citizens does not inspire much confidence that x is either true
16 or that x has been proved in any even mildly robust sense of the term.⁶⁵
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22 Therefore, the opinion of judges, jurors, or citizens in general about the degree of
23 confidence the hypothesis of guilt ought to achieve to convict according to BARD says
24 absolutely nothing about the epistemic exigence it entails. As Laudan puts it in referring
25 to BARD: “The standard of proof (...) in criminal trials in the United States is, I have
26 just claimed, a mess. It is not only ill defined, but it smacks of the arbitrary.”⁶⁶
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31 It is worth remembering that the whole argument in favour of the *failure thesis* had
32 taken its starting point from the presupposition that what BARD requires is just a high
33 *degree of confidence* in the guilt of the defendant to convict him or her (between 90 and
34 95%). This means that the standard Laudan presupposes as the one in force in his view,
35 is one that improperly reduces the threshold of evidence to a subjective degree of
36 confidence, excluding any reference to epistemic reasons. But it is precisely because of
37 this assumption that no conclusion about epistemic exigence of BARD could be drawn
38 from citizens’, jurors’ or juries’ opinions regarding the level of confidence the formula
39 requires.
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46 Therefore, even if the rate of false acquittals at trial was what Laudan purports, to
47 ascribe those errors to the *demand of evidence* of BARD just because some people say that
48 the formula requires a high degree of confidence is gratuitous. The rate of false acquittals
49 should be *proved* anyway, as they could be due to a number of other causes. Without a
50 “free-standing standard of proof” we have no parameter to say whether the evidence
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57 ⁶⁴ See Corea-Levy, 2012, § IV. I am not denying that a degree of confidence in truth of a certain proposition
58 *could* be epistemically rational. What I am saying, in Laudan’s vein, is that the mere confidence says *per se*
59 nothing about its own epistemic grounds.

60 ⁶⁵ Laudan, 2011, p. 215.

⁶⁶ Laudan, 2006, p. 64.

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3 demand is satisfactory or not. And as Laudan revealed, resorting to BARD we have no
4 such free-standing SoP but one "... grievously inadequate, deliberately unclear, wholly
5 subjective, and open to about as many interpretations as there are judges, to whom it
6 falls to explain this notion to hapless jurors."⁶⁷
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10 Given that this is the notion guiding (or failing to guide) every decision made in U.S.
11 courts during 2008 and earlier, as well as in Scotland and many other countries,⁶⁸
12 Laudan's conclusions regarding the demands made by the threshold of *proof* and the
13 errors caused by *that* threshold seem to become idle. No conclusion could be drawn
14 regarding the adequacy of the evidentiary threshold of BARD, nor regarding the
15 validity of its applications to certain cases facing disagreement between jurors or judges.
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21 However, there is a way around this obstacle. It is possible to avoid inconsistency in
22 defending the *confusion thesis* and the *failure thesis* at the same time. After all, one could
23 prove that even if BARD leads to the *land of confusion*, it happens to be that in a particular
24 legal system, in a certain community, the triers of fact only convict in cases where there
25 is a huge amount of evidence, and in many other cases, acquitting the defendant when
26 the evidence of guilt was quite good. In these circumstances, one could try to argue, as
27 Laudan does, that a conviction would have been epistemically rational and morally
28 convenient. This could even lead to claiming that in spite of its abstract indeterminacy,
29 the way in which BARD is applied in the relevant community happens to be excessively
30 exigent regarding evidence. However, in order to escape inconsistency, one should
31 properly ground this claim, resorting to the right sort of reasons; simply invoking the
32 high degree of confidence people declare BARD requires is not sufficient. This is
33 precisely here where Laudan's error becomes serious.
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43 4.2 Appearance of guilt that smacks of the arbitrary 44

45 This brings us to the main point of this paper. To avoid the inconsistency described
46 above, Laudan was able to reformulate his *failure thesis* in a way that would make it
47 worthy of consideration, to wit: as an empirical thesis independent from the degree of
48 certainty BARD requires. According to this reformulation, the claim would be that,
49 notwithstanding the *confusion thesis*, in the actual practice of adjudication, jurors
50 generally applied the formula in a way that leads them to acquit in too many cases
51 despite the presence of significant amounts of evidence of guilt. To a certain degree, we
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⁶⁷ Laudan, 2006, p. 30.

⁶⁸ See Gardiner, 2017; Mulrine, 1997; Picinali, 2009; Walen, 2015.

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3 can say this is what Laudan *tries* to demonstrate, but fails to, given the unappropriated
4 grounds of his argument.
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7 The problem is no longer that Laudan assumes BARD is too demanding, given the
8 opinions of jurors and juries regarding the degree of confidence BARD requires. The
9 problem is now quite different and concerns Laudan's strategy to prove that large
10 amounts of evidence of guilt were present in the majority of the cases acquitted. As found
11 in Laudan's contentious interpretation of the Scottish study, the judges manifested their
12 *degree of confidence* in guilt tantamount or superior to 50% by means of guilt-not-proven
13 verdicts. As shown by the K-Z interviews, judges and jurors manifested their *degree of*
14 *confidence* that only 5% of all 1,192 cases of the acquittals sample were clear acquittals.
15 From this, Laudan infers that in all the remaining acquittals, the degree of confidence
16 should have been tantamount or superior to 50%.⁶⁹
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24 This raises at least two problems. The first regards the miss-invocation of reasons of
25 the wrong sort; the second concerns the absence of reasons of the right sort.
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28 4.2.1 A CASE OF THE WRONG-SORT-OF-REASONS ARGUMENT

29 The first problem concerns the reasons Laudan invokes to infer the rate of false
30 acquittals he claims the system generates. Indeed, he adopts an entirely subjective SoP
31 formulated in terms of probabilities, and by doing so, he falls into the very same flaw he
32 had been criticizing: the assumption that the jurors' alleged degree of confidence verged
33 towards the one BARD supposedly requires (i.e. bordering on 90%) in cases they had
34 acquitted, and that this was equivalent to the epistemic appearance of guilt. In other
35 words, he falls into the *confusion error*.
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41 This is, in fact, the result of a double confusion. First, Laudan confuses what Richard
42 Moran would call "theoretical" and "deliberative" answers regarding states of mind.⁷⁰
43 Laudan takes for granted that the information he uses, i.e. jurors' or judges' self-
44 attributions of the degree of confidence about defendant's guilt *from the theoretical point*
45 *of view*, is tantamount to the degree of confidence which would have been right for them
46 to achieve *from the deliberative point of view*. However, the self-attributions of (past)
47 degrees of confidence regarding certain propositions does not demonstrate the
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58 ⁶⁹ While working on this paper, Findley's 2018 article came into my hands. Some of his criticisms of
59 Laudan are along the same lines as mine. See especially Findley, 2018, pp. 1278-1280 for an in-depth
60 analysis of K-Z's study.

⁷⁰ See Moran, 2001, §§ 2.5 and 2.6.

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3 reasonably of the doxastic attitude at stake.⁷¹ Second, and even worse, Laudan takes
4 for granted that both answers reflect the objective degree of epistemic justification of
5 the proposition at stake: to wit, the every defendant's guilt. Laudan assumes, with no
6 apparent reason at all, that subjective probability expressed by means of degrees of
7 confidence (close to BARD, and therefore close to 90%) *corresponds* in a perfectly
8 symmetrical way to the degree of epistemic justification. From this, he concludes that
9 there actually was an *epistemic* probability higher than 50% to support a conviction
10 verdict in every case in the sample.⁷²
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17 Nevertheless, degrees of confidence about a proposition p which are self-attributed
18 are not *epistemic reasons* to accept that proposition as true. They are the wrong sort of
19 reasons to justify accepting p . We should recall here, paradoxically, Laudan's lesson
20 about assigning probability degrees to beliefs. He asserts this is an arbitrary task, if it is
21 even possible at all; and something that "neither he nor most jurors could do with any
22 degree of reliability." As a result, if assigning probabilistic degrees of confidence can be
23 irrational when a probabilistic interpretation of BARD is at stake, the same has to be
24 said for assigning probabilistic degrees of confidence which are allegedly *verged on*
25 BARD: this also remains open to the allegedly "devastating criticism that it confuses
26 mere strength of belief (which may be wildly irrational) with warranted belief."
27 Rephrasing Laudan's previously quoted words regardless of how they arrived at their
28 close-to-BARD confidence, we have a close-to-BARD-proof. This also reverses the
29 situation, inasmuch as closeness-to-BARD fails to address the robustness of the
30 evidence. As long as they remain fixed purely on the strength of the juror's belief,
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43 ⁷¹ Let alone the problem of the accuracy of the opinions of jurors or juries regarding their own task and
44 of self-attributions of degrees of confidence. They could not only have been lying when answering
45 questions in interviews, but could also have been mistaken about their own performances. See D. A. Moore
46 & Healy, 2008. Laudan overlooks any problem of this kind. Thanks to Hernán Bouvier for pressing me to
47 clarify this point.

48 ⁷² Even in his 2006 book, after scrutinizing the opinion of "one distinguished member of the fraternity of
49 defense attorneys" according to which almost all criminal defendants are, in fact, guilty and all criminal
50 defense lawyers, prosecutors and judges share this understanding, Laudan remarked that "[s]till, it would
51 be preferable to have something better than anecdotal evidence to go on. Where direct evidence is
52 concerned, we obviously have very little since true guilt and true innocence are largely inscrutable in the
53 vast majority of cases. But there are some plausible inferences we can draw from that data we have at
54 hand" (Laudan, 2006, p. 108). After taking the midpoint of 35 percent of acquittal rate at criminal trials
55 across the U.S., he continued: "The first and most obvious (but not necessarily the most telling) inference
56 is that, in the opinion of the jurors (and judges), most defendants are guilty. Indeed, their apparent guilt
57 is so striking that a clear majority have been found to be guilty BARD, and there were probably numerous
58 others whose apparent guilt was well above 0.5 and who, therefore, may well have been guilty" (Laudan,
59 2006, p. 108). Now, even if the first part of the inference is indeed obvious (i.e. that *in the opinion of the*
60 *jurors and judges* most defendants going to trial were guilty), the second is neither obvious nor plausible.
For there is no good reason to conclude that the opinion of jurors and judges reflects an epistemic
appearance of guilt, to a striking measure, or to any other.

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3 closeness-to-BARD will remain open to the devastating criticism that it confuses mere
4 strength of belief (which may be wildly irrational) with warranted belief.⁷³ If BARD
5 smacks of the arbitrary, so too does closeness-to-BARD. This brings us to the second
6 type of problem.
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10 4.2.2 THE COMPLETE ABSENCE OF THE RIGHT SORT OF REASONS

11 To defend the *failure thesis* without falling into the “wrong-sort-of-reasons” fallacy,
12 the claim that in most of the acquitted cases the defendant was actually guilty should be
13 justified. To justify this claim, a necessary (yet insufficient) condition must exist: to wit,
14 bringing the evidence underpinning the defendant’s guilt to the fore. In light of this
15 condition, to invoke triers of fact’s high degree of confidence in a defendant’s guilt in
16 acquitted cases, as Laudan does, would be relevant if, and only if, one can prove that the
17 relevant degree of confidence of the trier of fact is tantamount to the degree of epistemic
18 justification. Yet, it seems that the only way of proving this point is by means of the
19 body of evidence grounding a hypothesis of guilt. Then, the only acceptable way to
20 estimate the degree of epistemic justification grounding hypotheses of guilt in acquitted
21 cases would be, ultimately, contrasting the body of evidence evaluated by the trier of
22 fact in every acquitted case. In other words, the only appropriate reason to estimate this
23 is the evidence jurors had when they decided to acquit.
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34 We can now see why Laudan’s *failure thesis* turns out to be unacceptable: the only
35 proper grounds to claim that a certain number of acquitted defendants were probably
36 epistemically guilty (yet not probably enough to satisfy the SoP in the way jurors or
37 judges presumptively understood it) would be the real evidence against each one of those
38 defendants; the only reasons *making guiltiness provable*. Yet, Laudan fails to provide any
39 evidence to encourage us to believe that not even one of the cases of acquittal he takes
40 under consideration had good epistemic reasons to believe in guilt.
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46 This should be enough to reject not only his *failure thesis*, but also his speculation
47 (perhaps more a hunch) of the high rate of false acquittals at trial, and his political
48 program of decreasing evidence exigency to convict people. He fails to fulfil a necessary
49 condition of the argument, namely, to properly justify that there was evidence in favour
50 of a guilt hypothesis in cases of acquittal.
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58 ⁷³ As Laudan said when speaking about moral philosophers, who in his view endanger the discussion when
59 they “suppose themselves competent to hold forth on questions involving the rigor or robustness of
60 methods of proofs” – now is Laudan himself who “stand[s] hoist on their own petard”: Laudan, 2011, p.
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3 But there is an additional reason for this rejection. Let us suppose that BARD is in
4 force, and that it actually requires 90% confidence in a defendant's guilt in order to
5 secure a conviction. Let us also imagine a community that is infallibly rational from the
6 epistemic point of view; one in which the degree of confidence in factual propositions
7 covariates with the degree of epistemic justification (which is, by hypothesis, also
8 quantifiable). Let us even suppose that for every case decided in that community, one
9 can contrast all the evidence fact finders had in order to make a decision, and every
10 epistemic inference they drew. Now, let us assume that of the total amount of acquittals
11 after trial in criminal cases in that community there is a very high rate (let us say, 85%)
12 favouring defendants whose guilt was proven between, say 60% and 89%.
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20 Even under these circumstances, to claim that the rate of *false acquittals* in this
21 epistemically ideal community is 85% would be unacceptable, to say the least. Since this
22 claim would be the outcome of simply and dubiously applying a less demanding SoP
23 than the one in force. For this claim to be minimally acceptable as *proving a factual error*,
24 new evidence should be brought to the fore (maybe even evidence excluded from the
25 procedure due to some exclusionary rule).
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30 By contrast, one could not legitimately claim that because the SoP in force demands
31 $x\%$ of epistemic justification in order to secure a conviction (x being a number higher
32 than 51), and every not-proven decision where proof of guilt was between 50% and $x_{-1}\%$
33 constitutes a *false negative*. This would be mere trickery. Without additional evidence,
34 one could at most argue that to acquit someone whose guilt had been proven between
35 50% and $x_{-1}\%$ was morally or politically undesirable. However, we must be aware that
36 this kind of disagreement is a moral or political one, not a factual, nor an epistemic one.
37 This is because in order to justify the claim that the defendant's guilt was 'sufficiently
38 proven' in most of the acquitted cases requires more than simply providing the evidence
39 to prove the defendant's guilt (the necessary affirmation). In addition, the claim entails
40 an evaluative judgment on the desirability or convenience of a conviction. Then, even if
41 Laudan's argument on the rate of acquittals with *probable* guilt (i.e. above 50%) were
42 sound (and we have seen it is not), his conclusion that this is an indicator of acquittals
43 *of guilty people* should be taken as no more than a mere evaluative judgment where a
44 certain degree of probability of guilt, which less than that demanded by the SoP
45 supposedly in force, *should be* enough to convict.⁷⁴
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⁷⁴ This again leads us to Laudan's *consequentialist* calculus. See n. 60.

5 Conclusion

The two worries central to Larry Laudan's contributions to legal-evidential reasoning are the radical arbitrariness of the SoP in force in the U.S. to decide criminal cases, i.e. BARD; and the unreasonable number of false negatives given the exacting requirements of the standard.

As I have tried to demonstrate, there is something wrong in the way he sets these worries out: to insist the standard is subjective and arbitrary, to label it a travesty and a fake system of proof seems inconsistent with saying that the standard is both excessively high and that it is responsible for a certain number of errors. Furthermore, his argument in favour of the claim that the system produces too many false acquittals is unacceptable, and not just because of this inconsistency. The main reasons are as follows: on the one hand, Laudan himself confuses (presumptive) strength of belief of jurors or judges with warranted belief; and on the other hand, he fails to provide any appropriate reason to show that the defendants acquitted were materially guilty.

If Professor Laudan tries to persuade his audience that the epistemic demand of the SoP needs to be diminished and they react in an epistemically rational way, then the demand should be rejected. This should be the case at least until he adduces (i) evidence proving the relevant epistemic probability of guilt of (a relevant number of) acquitted defendants and (ii) evidence to the effect that those acquittals benefitting people who are probably guilty are because a SoP with an excessively high threshold of evidence is applied. Trying to support the demand presuming that the SoP requires 90% or 95% confidence is, as we have seen, futile. Indeed, the mere fact that the whole of Laudan's argument on the rate of false acquittals hinges on interpreting BARD in terms of probabilities is dubious. After all, it is Laudan himself who clearly states that translating a SoP into probabilities leads to subjectivity. But in his 2006 book he clearly made the point:

My reasons for doing so [for making use of the language of probability] were chiefly heuristic; we can learn a great deal about how a SoP behaves, and especially about its role in the distribution of errors, by drawing on well-established results deriving from the analysis of probability and statistics. But like Ludwig Wittgenstein's famous ladder that we use for climbing a wall and

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3 then – having reached the top – discard, the technical discourse of probabilities
4 is now best laid aside as a tool for formulating a standard of proof.⁷⁵
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7 The problem is that inferring that the criminal system produces a definite number of
8 false acquittals (or any errors whatsoever) and that BARD is (partly) the cause of that
9 by starting from a probabilistic interpretation of that SoP, goes far beyond a *chiefly*
10 *heuristic use* of the probabilistic model of discourse. There is nothing wrong with using
11 a ladder to reach the top of the wall and then discarding it. The problem is that Laudan's
12 eagerness to disclose the rate of false acquittals at trial seems to have made him forget
13 that after reaching the top he had to *land on the wall* before discarding the ladder.
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⁷⁵ Laudan, 2006, p. 77.

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