IV. Conclusion

and philosophical options clearly and carefully we might eventual ly be capable of making genuine progress in philosophy.11 but seldom entirely fulfilled hope that by exploring our historical significant accomplishments and bode well for the oft entertained cal grounds of the normativity of our moral obligations. These are the direction of a more satisfying understanding of the metaphysiare in some sense distinct from us. And Förster also points us in intuitions, Förster offers interesting suggestions about the possipacities, such as distinguishing between ourselves and objects that be able to exercise some of our most fundamental epistemic cability that some aspects of time might depend on space for us to even if it was clear that space and time are, for Kant, both a priori ment of Kant's project could be much greater than has been aptions that were being explored at the time. For as we have seen, preciated. Further, Förster's systematic reflections open up new of Kant and German Idealism and a clearer picture of the compossibilities for understanding the underlying philosophical op-Garve's significance for several different aspects of the developplex intellectual interactions that took place between the major figures of this period. For as we have seen, Förster suggests that historical scholarship brings to life the central philosophical issues provides on a grander scale throughout the entire book. Förster's insights that Eckart Förster's The Twenty-Five Years of Philosophy is a brief, yet still informative glimpse of the rich and stimulating What the above discussion of "From A to B" has, I hope, offered

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Mapping the Labyrinth of Spinoza's Scientia Intuitiva

On May 5th, 1786, Goethe wrote to Jacobi:

I hold faith with the atheist's [i.e. Spinoza's] worship of God and leave to you what you have no choice but to call religion. If you say that one can only believe in God, then I reply that I place stock in seeing, and when Spinoza says of scientia intuitiva: "hoc organisendi genus procedit ab adaequata idea essentiae formalis quorundam Dei attributorum ad adaequatam cognitionem essentiae essentiae formalis quorundam Dei attributorum ad manage to devote my whole life to the contemplation of things... of whose essentia formalis I can

¹¹ I thank Eckart Förstet, Peter Thielke, Clinton Tolley, Peter Yong, and audience members at the conference held at the Humboldt Universität in Berlin, June 2012 for helpful discussion of an earlier version of this paper.

to thank Nick Kauffman for their helpful comments on earlier versions tata Metaphysica]; KV, Short Treatise on God, Man, and his Well-Being [Korte abbreviations for Spinoza's works: TIE, Treatise on the Emendation of the of this edition (for example, G III/17). I use the following standard Verhandeling van God de Mensch en deszelfs Welstand]; Ep., Letters. I would like Intellect [Tractatus de Intellectus Emendatione]; CM, Metaphysical Thoughts [Cogi-Spinoza Opera, ed. Carl Gebhardt, 4 vols., Heidelberg: Carl Winter Verlag, Latin and Dutch originals I have relied on Gebhardr's critical edition: Complete Works, trans. Samuel Shirley, Indianapolis: Hackett, 2002. For the references to the other letters of Spinoza I have used Shirley's translation: trans. Edwin Curley, Princeton: Princeton University Press, 1985. In are to Curley's translation: The Collected Works of Spinaza, vol. 1, ed. and the demonstration of proposition 16 of part 1. Unless otherwise marked, all references to the *Ethia*s, the early works of Spinoza, and Letters 1-29 other cases). Hence, E1d3 is the third definition of part 1 and E1p16d is diately to the right of the part of the book), or 'demonstration' (in all and app(-endix); 'd' stands for either 'definition' (when it appears immelowing abbreviations: a(-xiom), c(-orollary), p(-roposition), s(-cholium) 1925. I cite the original texts according to the volume and page number 1 Passages in Spinoza's Ethics will be referred to by means of the fol-

hope to conceive an adequate idea without in the least wortying about how far I'll get and how much is tailored to my mind.²

tually leaving much of the riddle unsolved. heads broken against it, making some valuable progress, but even bonum and blessedness. I have seen, however, many great Spinozist important doctrines of the book-perhaps even the most imry. There is no doubt in my mind that this is one of the most mystical lapse that could be forgiven and ignored. On the contraportant, or because I considered it to be merely a momentary, this doctrine. I have done so not because I thought it was unimquite a few years I have been trying to avoid a confrontation with portant—as Spinoza clearly associates it with human summum ics as well as his theories of knowledge, ethics, and the affects. For and enigmatic. In order to unpack Spinoza's doctrine of scientia sion of unlimited devotion to a doctrine that is highly technical through many of the most intricate details of Spinoza's metaphysintuitiva as the highest and best kind of cognition,3 one must work the reader for a variety of reasons. I was astonished by its expres-Förster's marvelous The Twenty-Five Years of Philosophy may strike This bold announcement by the distinctive hero of Eckatt

The issue of scientia intuitiva surfaced more than once in the two joint seminars I have taught with Eckart at Johns Hopkins over the past few years. These seminars were two of the most intellectually fulfilling experiences I have ever had, and in the course of them I learned a tremendous amount from Eckart not only about the German Idealists but also about Spinoza. Unfortunately, my ability to return Eckart's generosity was limited. Just like his hero, Goethe, Eckart cherished most Spinoza's doctrine of scientia intuitiu, but of all things Spinozist this was (and is) the issue on which I felt the least secure. Not wishing to make fool of myself, I had to answer Eckart's queries by claiming that despite my conviction

about the importance and centrality of this doctrine, I had only a vague understanding of it, since virtually every aspect of the doctrine is surrounded with unresolved problems and questions. And so I kept postponing writing on the issue "till I have a better grasp."

maining questions and problems surrounding the doctrine. mathematical examples, and then attempt to map the major reto be explained below). In the third and final part, I will explain many, I will argue that Spinoza's intuitive knowledge is both infer-Spinoza's preference for scientia intuitiva and his frequent use of ential and causal (in a certain rigid sense of 'inferential' and 'causal' cognition that is closely tied to causation? To the surprise of cognition that is inferential? and (ii) Is scientia intuitiva a kind of have drawn the attention of many readers: (i) Is scientia intuitiva a the second part, I will address two closely related questions which tiva in the Treatise on the Emendation of the Intellect and the Ethics. In content and development of Spinoza's discussion of scientia intui-'proceed'). I will first provide a close preliminary analysis of the able. I will proceed in the following order (keep in mind the word ground and help make this key doctrine more readily understanding Spinoza's scientia intuitiva, but I do hope to break some new solve in this paper the plethora of problems and riddles surround-As one can expect from this introduction, I am not going to

I. Scientia intuitiva in the Ethics and the Treatise on the Emendation of the Intellect

Spinoza develops his theory of scientia intuitiva as part of his three-fold taxonomy of the kinds of cognition, the lower kinds being imagination [imaginatio] and reason [ratio]. Spinoza discusses this taxonomy in some detail in the Ethics, as well as in two of his earliest works: the Treatise on the Emendation of the Intellect (TIE), and the Short Treatise on God, Man, and His Well-Being (KV). In the following I will concentrate on the first two texts, since the KV discussion—though interesting and highly important for understanding Spinoza's philosophical development—is both dispersed over several chapters (chapters one, two, five, and twenty-two of

² Goethes Briefe, Hamburger Ausgabe, ed. Karl Robert Mankelow, 3rd ed. 4 vols., München: C.H. Beck 1989, 1:753. The English translation is quoted from Eckart Förster, The Twenty-Fine Years of Philosophy: A Systematic Reconstruction, trans. Brady Bowman, Cambridge, MA: Harvard University Press, 2012, 94.

³ I translate *ngnitio* as cognition, rather than knowledge, since for Spinoza *ngnitio* may well be inadequate and false.

the second part of KV), and strongly tied to views Spinoza no longer adhered to in his late period.⁴ I will quote the *Ethics* (E) and TIE passages *in extense*, since it is precisely the small details and nuances of these texts that may help us clarify many of the problems at stake.

cognitive structure of the human mind and its compensation understands the human mind,"6 i.e., insofar as he understands the this clarification, let us now have a look at Spinoza's lengthy text Aristotelian claims that God knows only universals.7 Having made mechanisms. This view is an almost total inversion of medieval are unlimited, so he has no need for compensation mechanisms. not perceive things through universals.5 God's cognitive capacities different individuals from which we have abstracted the universal "man" will be quite different from yours, since we have perceived Thus, Spinoza claims, God knows universals "only insofar as he term (G II/121/30). It is noteworthy that for Spinoza God does ously does not reflect reality as it is. Moreover, my concept of mous zipping of data helps me function in the world, but it obvithe experience of these three items as "three men." This enorceived in their intricate details, I use the universal "man" and store perceiving and recording distinctly three items I have just pertheir complete manifold of characteristics. For example, instead of our inability to perceive, store, and recollect individual items in compensate for the limitedness of our cognitive capacities, i.e., highly confused ideas (G II/121/13) we form in our mind to and genesis of universals (E2p40s1). For Spinoza, universals are Ethics appears in E2p40s2, following an explication of the nature Spinoza's main discussion of the three kinds of cognition in the

From what has been said above, it is clear that we perceive many things and form universal notions [notiones universales formare]:

I. from singular things which have been represented to us through the senses in a way that is mutilated, confused, and without order for the intellect (see P29C); for that reason I have been accustomed to call such perceptions cognition from random experience;

II. from signs, e.g., from the fact that, having heard or read certain words, we recollect things, and form certain ideas of them, which are like them, and through which we imagine the things (P18S). These two ways of regarding things I shall henceforth call cognition of the first kind, opinion or imagination.

III. Finally, from the fact that we have common notions and adequate ideas of the properties of things (see P38C, P39, P39C, and P40). This I shall call reason and the second kind of cognition.

[IV.] In addition to these two kinds of cognition, there is (as I shall show in what follows) another, third kind, which we shall call intuitive knowledge [quod scientiam intuitivam vocabimus]. And this kind of cognition proceeds from an adequate idea of the formal essence of certain attributes of God to the adequate cognition of the [NS: formal] essence of things [Alque boc cognoscendi genus procedit ab adaequata idea essentiae formalis quarundam Dei attributorum ad adaequatam cognitionem essentiae rerum].

I shall explain all these with one example. Suppose there are three numbers, and the problem is to find a fourth which is to the third as the second is to the first. Merchants do not hesitate to multiply the second by the third, and divide the product by the first, because they have not yet forgotten what they heard from their teacher without any demonstration, or because they have often found this in the simplest numbers, or from the force of the Demonstration of P7 in Bk. VII of Euclid, viz. from the common property of proportionals. But in the simplest numbers none of this is necessary. Given the numbers 1, 2, and 3, no one fails to see that the fourth proportional number is 6 - and we see this much more clearly because we infer the fourth number from the ratio which, in one glance [uno intuini], we see the first number to have the second. (E2p40s2 | GII/122/1-30)

Let us begin with a few general observations. (1) The Latin text of this scholium, which stems from Spinoza's 1677 Opera Posthuma, is virtually identical to the text of the recently discovered Vatican manuscript of Spinoza's Ethica (which predates the Opera Posthuma). The few variations are completely marginal, and thus we may infer that the Opera Posthuma editors did not interfere with this

⁴ Such as a Cartesian conception of love, an explanation of the mindbody union as grounded in the mind's love of the body, and mind-body causal interactionism.

⁵ See CM II 7 (G I/263/8) and Ep. 19 (G IV/92/1).

⁶ CM II 7 (G I/263/8).

⁷ Spinoza explicitly describes his stand as such an inversion at CM II 7 (G I/263/1-9). Gersonides seems to be at least part of the target of this critique.

⁸ The Vatican Manuscript of Spinoza's Ethica, eds. Leen Spruit and Pina Totaro, Leiden: Brill, 2011, 154-5. On the dating of the manuscript, see page 2.

§19, 1. There is the Perception we have from report or from some con-

mathematical example Spinoza describes scientia intuitiva as being cognized through each of the three kinds of cognition. (8) In the seems to show that for Spinoza the very same content can be sarily true, and that cognition of the first is the only cause of falsiza argues that cognitions of the second and third kind are necessuch perceptions...") indicates that he has been working on this "in one intuition/glance." In other words, it is not a process that ty. (7) The mathematical example at the end of the scholium (122/13) and third kind (122/18) are adequate.9 In E2p41, Spinoinadequate and confused (122/4), while cognitions of the second refers to everything that is real. (6) Cognition of the first kind is kind of cognition is knowledge of essentiae rerum. For Spinoza rerum scope of 'things' that can be known by scientia intuitiva. The third taxonomy for quite a while. (5) Spinoza does not seem to limit the about the first kind of cognition ("I have been accustomed to call (of the formal essence of an attribute). (4) Spinoza's reflective talk of the essence of things follows in the mind from an adequate idea in the Mind are also adequate." Cognition through scientia intuitiva "Whatever ideas follow in the Mind from ideas that are adequate Saentia intuitiva exemplifies Spinoza's claim in E2p40 itself: and is not dealing with the formation of universal notions. (3) to these two kinds of cognition...") does not begin with "from," graph which begins the explanation of scientia intuitiva ("In addition with the presentation of the second kind of cognition. The paraperceive many things and form universal notions" (122/2) ends text. (2) Notice that the explication of the sources from which "we

of perceiving which I have had up to now for affirming or denyceiving can be reduced to the following four: ing something without doubt" (TIE §18). These modes of peremendation of the intellect, Spinoza turns to examine "the modes the most urgent task, which must precede everything else, is the the other kinds of cognition in the TIE. Having concluded that Let us turn now to Spinoza's discussion of saentia intuitiva and

from experience that is not determined by the intellect. But it has this 2. There is the Perception we have from random experience, that is,

iment that opposes it. So it remains with us unshaken. name only because it comes to us by chance, and we have no other exper-

inferred [concluditur] from another thing, but not adequately. This hapcompanies. thing is inferred from some universal, which some property always acnothing is attributed to it except propria, not the essence of a particular e.g., Therefore there is something. Therefore there is some power, etc. Or also trom cause except what we consider in the effect. This is sufficiently evident pens—[Note F: When this happens, we understand nothing about the thing]—either when we infer the cause from some effect, or when somethe cause on account of the effect, as we shall show in an example; but that, etc. In the second case something clearly conceived is attributed to the fact that the terms express the cause negatively. Therefore it is not this, or from the fact that then the cause is explained only in very general terms, 3. There is the Perception that we have when the essence of a thing is

through its essence alone, or through cognition of its proximate cause suae proximae causae. Denique perceptio est, ubi res percepitur per solam suam essentiam, vel per cognitionem 4. Finally, there is the Perception we have when a thing is perceived

same illness. Again, I also know by random experience that oil is capable which I have never doubted. By random experience I know that I shall port my date of birth, and who my parents were, and similar things, know almost all the things that are useful in life. of feeding fire, and that water is capable of putting it out. I know also that they had not all lived the same length of time and did not all die of the die, for I affirm this because I have seen others like me die, even though the dog is a barking animal, and man a rational one. And in this way I §20 I shall illustrate all of these with examples. I know only from re-

same thing as smaller when we look at it from a great distance than when clearly that the soul is united to the body, which union is the cause of perceive that we feel such a body, and no other, then, I say, we infer to be, and other things of the same kind we look at it from close up, we infer that the sun is larger than it appears the nature of vision, and that it has the property that we see one and the that sensation and union are. Or after we have come to know [nonmus] such a sensation; but we cannot understand absolutely from this what §21 But we infer [one thing] from another in this way: after we clearly

essence of the soul, I know [scio] that it is united to the body. By the same thing [scio, quid boc sit aliquid nosse], or from the fact that I know [now] the the fact that I know [now] something, I know what it is to know some-§22 Finally, a thing is perceived through its essence alone when, from

The second and third, though they differ from one another, cannot err." ⁹ Cf. KV II 1 (G I/54/15): "The first is commonly subject to error.

sees the proportionality in all he calculations." (Italics added.) 10 Cf. KV II, 1 (G I/55/12): "...through his penetration he immediately

kind of cognition, we know [nonimn] that two and three are five, and that if two lines are parallel to a third line, they are also parallel to each other, etc. But the things I have so far been able to know [intelligene] by this kind of cognition have been very few.

\$23 That you may understand all these things better, I shall use only one example. Suppose there are three numbers. Someone is seeking a fourth, which is to the third as the second is to the first. Here merchants will usually say that they know what to do to find the fourth number, because they have not yet forgotten that procedure which they simply heard from their teachers, without any demonstration.

Others will construct a universal axiom from an experience with simple numbers, where the fourth number is evident through itself—as in the numbers 2, 4, 3, and 6. Here they find by trial that if the second is multiplied by the third, and the product then divided by the first, the result is 6. Since they see that this produces the same number which they knew to be the proportional number without this procedure, they infer that the procedure is always a good way to find the fourth number in the proportion.

\$24 But Mathematicians know, by the force of the demonstration of Proposition 19 in Book VII of Euclid, which numbers are proportional to one another, from the nature of proportion, and its property, viz. that the product of the first and fourth numbers is equal to the product of the second and third. Nevertheless, they do not see the adequate proportionality of the given numbers. And if they do, they see it not by the force of that Proposition, but intuitively, [NS: or] without going through any procedure [sed intuitive, nullam operationem facientes].

Looking closely at this passage and comparing it with Spinoza's discussion of scientia intuitiva in E2p40s2, we can register the following observations. (9) The first two kinds of cognition in the TIE are considered as two subspecies of the first kind of cognition in the Ethics, (10) Unlike the discussion in the Ethics, in the TIE Spinoza does not claim that the first three kinds of cognition are the sources from which we form universals. This can be explained by the context of the Ethics passage (E2p40s1) which addresses the issue of universals. (11) The TIE's third kind of cognition refers to an inadequate inference of an essence, but the corresponding kind of cognition in the Ethics is said to be "an adequate idea of the properties of things." Did Spinoza change his mind about the adequacy of this kind of cognition (ratio), or is it

are "inferring the cause from some effect," and inferring "someof inference is especially problematic since it leads to anthropoessence of a thing, but do not constitute the essence). 13 This kind than its propria (i.e., qualities which follow necessarily from the deny that these qualities constitute the essence of the cause, rather cause only the qualities of the effect.12 Spinoza would not deny that an inference, we infer that the properties of the effect must come in other texts that "cognition of an effect through its cause is bly the essence of the thing (since this is the general feature of the thing" from the propria of a thing. This something is most probathe difference between them is quite minimal. The two disjuncts appears to be split into two disjuncts, though, as far as I can see, its finite effects.¹⁴ (13) The third kind of cognition in the TIE morphism, i.e., conceiving the infinite (i.e., God) in the image of the qualities of the effect must come from the cause, but he would from the cause (relying on ex nihilo nihil fit), and thus ascribe to the understanding what constitutes an inadequate inference. In such Spinoza's writings. Normally, 'adequate/inadequate' modifies the TIE? (12) The notion of inadequate inference is not frequent in essence that is inadequately inferred is still an adequate idea, even in perhaps the case that, as Don Garrett suggests,11 the idea of the TIE's third kind of cognition). Now, given Spinoza's explicit claim 'cause', 'idea', or 'cognition.' Spinoza's Note F seems crucial for

¹¹ Don Garrett, "Spinoza's Theory of Saintia Intuitiva," in Saintia in Early Modern Philosophy, eds. T. Sorell et al., Studies in History and Philosophy of Sainne 24, New York: Springer, 2010, 109. According to Garrett Spinoza "presumably means only that the inference fails to show exactly what the essence of the cause is" (109). I wonder, however, how can one have an adequate idea of a thing without having an adequate and exact idea of its sesence.

¹² Cf. Spencer Carr, "Spinoza's Distinction between Rational and Intuitive Knowledge", *Philosophical Review* 87 (1978), 245.

¹³ See Theological Political Treatise, ch. 4 (G III/60): "Cognition of an effect through its cause, is nothing but knowledge of some property of the cause."

¹⁴ See Spinoza's discussion of the "proper order of philosophizing" in E2p10s2. I discuss this issue in some detail in Yitzhak Y. Melamed, review of Rationalism, Platonism, and God, ed. Michael Ayers, Notre Dame Philosophical Reviews (February 24, 2009).

the proximate cause of the thing or not. In the TIE Spinoza ala thing" (TIE §95). Thus, if I am not mistaken, both disjuncts of In the TIE the fourth kind of cognition whose object is God lows for the existence of an uncreated, or unaused, thing, i.e., God. thing. The split is really about whether the essence must refer to the fourth kind of cognition in the TIE refer to the essence of kinds of definition are supposed to capture "the inmost essence of a created thing, which has "to include the proximate cause." Both own being [esse¹⁷] for its explanation," and the proper definition of cause, i.e., that the object should require nothing else except its definition of an "uncreated thing," which "should exclude every TIE §§96-97. There Spinoza distinguishes between the proper fits Spinoza's discussion of the criteria for a proper definition in proximate cause of the thing. The split between the two disjuncts directly (and not inferring it from a proprium), or perceiving the split into two exclusive disjuncts: perceiving the essence of a thing um). (15) The TIE's fourth and highest kind of cognition is also entity (which includes all the individuals exemplifying the propricontent is "what is equal in the part and in the whole" (E2p37)). by several individuals), rather than a proprium of one all-embracing but we wrongly assume that this quality is a universal (instantiated as a universal. This perception may be an unconfused idea (if its proprium which follows from the essence of a thing (such as God) what Spinoza has in mind here is that we occasionally perceive a third kind of cognition)? I suspect (though I am not sure) that essence of a thing (which is the general characterization of the TIE's do with what is at stake? How is it related to the inference of the accompanies") is far from clear. What does the universal have to the end of his description of the TIE's third kind of cognition ("... inferred from some universal which some property always from an effect (i.e., proprium). (14) The phrase Spinoza employs at that both disjuncts refer to an inference of the cause¹⁶ (or essence) nothing but knowledge of some property of the cause,"15 it seems

of other things in the Ethics, though he did in the TIE. In both stipulates that the proper definition of God must "express God's uncreated thing (describing God instead as causa sui). In Ep. 60 he captures God's essence qua pure existence.18 In his late period, ans) are mostly clear. The two examples of the TIE's third kind of amples of each in §§20-24. The examples of experientia waga in §20 the four kinds of cognition in §19, Spinoza turns to provide exthings (God himself included). (16) Following the presentation of of its essence to the essence of God, the ultimate cause of all cases we conceive a thing adequately by tracing the causal ancestry not distinguish between scientia intuitiva of God and scientia intuitiva precisely, his essence (see E1p16c1). For this reason, Spinoza does efficient cause."19 God's efficient cause is God himself, or more Spinoza would reject the conception of God as an uncaused or cannot refer to God's cause, since God is uncreated. Instead, it sun (the cause). (17) In §22 Spinoza provides three examples of the sun and our knowledge of vision (the effect), the nature of the Similarly, in the second example, we infer from our perception of to give us an adequate and complete conception of the cause. cause are the characteristics we find in the effect. This is not likely mind-body union (the cause). But, of course, all we ascribe to the from our sensation of the body (an effect), the nature of the cognition in §21 are quite important. In both cases we infer causes (including a tongue-in-cheek one directed toward the Aristoteliexample we have just examined of the third kind of cognition. the fourth and highest kind of cognition. The second example (or essences) from effects (or propria). In the first case, we infer tion. Once the essence is perceived, the intellect follows the causal While the TIE's third kind of cognition infers the essence (cause) [szio] that it is united to the body') is a precise inversion of the the essence itself is perceived directly and not through any mediafrom the essence to the proprium. In the fourth kind of cognition from a proprium (effect), the fourth kind of cognition proceeds ("from the fact that I know [novi] the essence of the soul, I know

 $^{^{15}}$ Theological Political Treatise, ch. 4 (G III/60). Cf. KV II 26 (G I/111). 16 Indeed the NS has here "cause" instead of "something."

¹⁷ Esse denotes the relationship (identity or not) between a thing's essence and existence. In the case of God (the "uncreated thing"), essence and existence are identical (see E1p20), and this identity suffices to explain God's existence.

¹⁸ For a detailed discussion of the identity of God's essence and existence, see my article, "Spinoza's Deification of Existence," Oxford Studies in Early Modern Philosophy 6 (2012), 75-104.

¹⁹ In another work I argue that for Spinoza all causation is efficient, but I cannot enter this issue here.

may conceive the essence of that number directly (TIE's fourth um of the number (the proportion it maintains with other numkind of cognition), and have this intuition confirmed by the proprifrom one of its properties (TIE's third kind of cognition), or he again the mathematician may infer the number (cause/essence) through either the third or the fourth kind of cognition. Here of numbers and their properties, perceive the fourth number that mathematicians, i.e., people that have a good grasp of the nature through the first two kinds of cognition. In §24 Spinoza claims merchants and commoners perceive the fourth proportional employs it in the Short Treatise too.20 In §23 Spinoza explains how seen that the very same example appears in the Ethics, and Spinoza cognized through all four kinds of cognition. We have already tionality of numbers, which shows how the same thing can be ity. (18) In §§23-24 Spinoza provides the example of the propororder knowledge is a proprium following from the essence of proprium that follows from the essence of the relation of parallelknowledge, and in the third example he shows that transitivity is a same point. In the first example Spinoza points out that secondtwo other examples of the fourth kind of cognition make the very order and proceeds to the effects of the essence, the propria. The

II. Is scientia intuitiva causal/inferential?

inference at stake is from cause to effect (or from essence to proture together, since the view I am about to suggest is that the cognition. I will discuss the issues of inferentiality and causal nathe questions of the inferential and causal nature of this kind of intuitiva in E2p40s2 and the TIE, we are now ready to approach Following our exploration of Spinoza's discussions of scientia

striving and virtue of the human mind is to understand things the book. In this part, Spinoza demonstrates that the greatest in the Ethics, appears in the second half of the fifth and last part of Next to E2p40s2, the other major discussion of scientia intuities

²⁰ KV II 1 (G I/54/17-55/13).

and depends on, God's nature, and then notes: of God and scientia intuitiva in terms that are almost eschatological arises from scientia intuitiva (E5p33), and that the more we know through scientia intuitiva (E5p25), that the Intellectual Love of God (G II/303/1-11).²¹ It argues that the human mind follows from The scholium begins with characterization of the Intellectual Love things through scientia intuitiva the less harmful is death to us (E5p38 and E5p38s). Of particular importance for us is E5p36s.

I thought this worth the trouble of noting here, in order to show by this affect our Mind as much as when this is inferred [concluditur] from the very tion, though legitimate and put beyond all chance of doubt, still does not example how much the cognition of singular things [rerum singularium II/303/17-25. Italics added). essence of any singular thing which we say depends on God (E5p36s | G both for their essence and their existence, nevertheless, that demonstrasecond kind. For although I have shown generally in Part I that all things universal cognition [cognitione universal] I have called cognition of the E2p40s2), can accomplish, and how much more powerful it is than the nognitio] I have called intuitive, or cognition of the third kind (see (and consequently [consequenter] the human Mind also) depend on God

mind) is its dependence on God. inferred from the essence of the singular thing (i.e., the human tiva.22 Most crucial for our purposes is the depiction of saentia portant example of the distinction between ratio and scientia intui-The passage makes several important points. It provides an imintuitiva as inference from the essence of the human mind. What is

third kind of cognition (and the ensuing Amor Dei Intellectualis) is the fifth part of the Ethics Spinoza stresses time and again that the The inference involved in scientia intuitiva is clearly not in time. In scientia intuitiva is inferential, let me make one crucial reservation. Before turning to provide further support for the claim that

²¹ For helpful discussions of these aspects of the fifth part of the Ethics, see Warren Zev Harvey, "The Term Gloria in Spinoza's Ethics" [in Cambridge: Cambridge University Press (forthcoming).

22 Cf. Garrett, "Spinoza's Theory of Scientia Intuitiva," 108. Hebrew], Iyyun 48 (1999), 447-449, and "Ishq, Hesheq, and Amor Des Intellectualis," in Steven Nadler (ed.), Spinoza and Medieval Jewish Philosophy,

eternal.²³ As far I can see, *scientia intuitiva* is cognition *in one glance* – just like a map - of the complete causal ancestry of a certain thing.²⁴

We should notice that inference is also involved in ratio. In the passage just quoted Spinoza refers to the second kind of cognition as "demonstration," and in the KV he qualifies this kind of cognition as an "art of reasoning." The question of course arises what is then the difference between the inference involved in ratio and that of scientia intuitiva? Spinoza's claims in E2p40s2 suggest that the inference of scientia intuitiva "proceeds from an adequate idea of the formal essence of certain attributes of God to the adequate cognition of the essence of things," while the inference of ratio begins from universals. In other words, scientia intuitiva infers the effects from the essence of God (i.e., the attributes), while ratio infers cognitions so from universals.

Another crucial element in the depiction of scientia intuitiva in E2p40s2 which we have not scrutinized so far is the term 'procedit' (proceeds). The word appears five times in the Ethia, and in all cases it refers to the manner in which either a demonstration (E3p39d, E3p44d, and E5p40d), or the third kind of cognition (E2p40s2 and E5p25d), proceeds.²⁷ This use of the term provides some support for my claim that the third kind of cognition is a certain kind of inference. Similarly, in §85 of the TIE Spinoza

²³ See, for example, E5p31. On the nature of eternity in Spinoza, see my article, "Spinoza's Deification of Existence."

²⁴ In the Cogituta Metaphysica, one of Spinoza's earliest works, Spinoza makes a closely related point while discussing God's intellect and his omniscience. In this context, Spinoza stresses that "God does not conclude anything by reasoning," since he does not acquire any new knowledge of which he would have to have been ignorant before reasoning (CM II 7 | G I/261/21). Obviously, this claim does not prevent God from perceiving the entire causal-inferential map of nature in one glance.

²⁵ KV II 1 | G I/55/11. Spinoza's description of ratio as inadequate inference in TIE §19 seems also to suggest that another kind of cognition involves adequate inference.

²⁶ Either cognition of the particulars that fall under the universals, or cognition of the essence from the *propria* which accompany the universals (as the TIE suggests).

²⁷ In Spinoza's book, *Descartes' Principles of Philosophy, 'procedit'* is used almost exclusively in the context of demonstrations.

notes that in the case of true idea "its objective effects proceed in the soul according to the formal nature of its object. This is the same as what the ancients said, i.e., that true knowledge [veram scientiam] proceeds [proceeds] from cause to effect." Employing the scholastic distinction between formal and objective features, Spinoza claims in this passage that a true idea maps and reflects the causal structure of its objects. Thus, it is clear I believe that for Spinoza an intuition – being a true idea – is not an isolated perception that is unrelated to any other cognition, but rather it must be imbed in the true reflection, in the intellect, of the causal structure of nature.

III. Tentative conclusions

The notion of intuition has a long and twisted history in western philosophy, to the extent that it is questionable whether any two philosophers used the term in the very same sense.²⁸ The nature and epistemological value of intuition are subjects of major debates in contemporary philosophy.²⁹ In this paper I have argued that Spinoza's *scientia intuitiva* is not a mystical illumination detached from any other cognition, bur rather an inference from the essence of God (i.e., the attributes), through the immediate effects of the essence of God,³⁰ to the essence of all things.³¹

²⁸ Thus, in his Regulae, Descartes stresses that his use of 'intuition' is unlike any of his predecessors (AT X 369). Descartes' use is significantly different from Spinoza's. See Frédéric Manzini, "D'ou vient la conniassance intuitive? Spinoza devant l'aporie de la connaissance des singulaires," in F. Manzini (ed.) Spinoza et les scolartiques, Paris: PUPS, 2011, 46-48.

²⁹ See, for example, Timothy Williamson, The Philosophy of Philosophy, Oxford: Blackwell, 2007, 1-9 and 214-220.

³⁰ For a detailed discussion of the infinite modes, see the fourth chapter of my book, *Spinoza's Metaphysia: Substance and Thought*, Oxford: Oxford University Press, 2013.

³¹ Thus, I believe, cognition of the attributes themselves is the most trivial and accessible case of scientia intuitiva which requires merely the perception of the attributes as self-conceived. On the triviality of this cognition, see E2p47s: "God's infinite essence and his eternity are known to all."

At this point we may address two major questions raised by previous studies of the issues: (1) Since in the *Ethics*, Spinoza insists that both *ratio* and *scientia intuitiva* are adequate, why does he prefers the latter over the former³² and (2) Why does Spinoza frequently use mathematical examples to illustrate *scientia intuitiva*³³

The answer to the first question is rather simple. To conceive things through scientia intuitiva is to think like God, or, more precisely, to take part in God's infinite intellect. ³⁴ As we have already seen, ³⁵ Spinoza's God does not conceive things through universals which are of hardly any use for him. ³⁶ God does not conceive things through the second kind of cognition. Hence, if we wish to take part in divine knowledge, we must turn to scientia intuitiva.

Turning now to the second question, let me point out that in E5p36d and TIE §22 Spinoza employs quite a few nonmathematical examples. Still, the frequent use of mathematical examples for illustrating scientia intuitiva (as well as many other issues in Spinoza's philosophy) demands an explanation. For Spinoza, mathematical entities — both numbers and geometrical figures — are entia rationis.³⁷ We form concepts of numbers by abstraction from equinumerical classes.³⁸ I may form the concept of five from observing give chimpanzees, while you may form the same concept by observing five elephants. After the abstraction,

elephants nor chimpanzees enter into our calculations of 5). It is we disregard the causal ancestry of our number concepts (neither numbers and figures provide perfect methodological tools for precisely for this reason that Spinoza degrades mathematical entican easily demonstrate the relationship between essence and proabstracted and isolated from the causal network of real beings, its cause. But this abstraction has a positive side as well. Being nationis"); the very notion of number assumes an abstraction from ties to the low ontological level of entia rationis (or even entia imagicognition in the isolated surrounding of mathematical entities. and effects) is far more difficult than demonstrating the same scientia intuitiva in vivo (i.e., in the real and infinite network of causes not looking for any unifying first cause. Of course, achieving quate understanding of anything, in the case of numbers we are immediate effects is a sine qua non condition for having an adethe study of real beings where knowledge of the first cause and its numbers (qua abstractions) do not refer to causes. 40 Thus, unlike we are not required to further trace the causes of this essence; prium, since after we conceived the essence of a certain number, illustrating things in vitro. Through the test tube of numbers we

There are quite a few significant questions regarding scientia intuitiva that has not been discussed in this paper. Of such a kind is the issue of the proper historical context and background of this doctrine.⁴¹ Similarly, the precise wording of Spinoza's description of scientia intuitiva in E2p40s2 – "this kind of cognition proceeds from an adequate idea of the formal essence of certain attributes of God to the adequate cognition of the [MS: formal] essence of

³² Garrett, "Spinoza's Theory of Scientia Intuitiva," 101

³³ Förster, Twenty Five Years of Philosophy, 97.

³⁴ The elaboration of this last point will require a detailed study of part five of the *Ethio* and hence cannot be done here.

³⁵ See the beginning of Part I above.

³⁶ See note 6 above. Spinoza's God knows universals only insofar as he knows the human mind, its limitations, and compensation mechanisms.

³⁷ See TIE §95 (G II/35/5) and Ep. 12 (G IV/57-58). I discuss these issues in some detail in Yitzhak Melamed, "On the Exact Science of Non-Beings: Spinoza's View of Mathematics," *Iyuu: The Jernalem Philosophical Quarterly* 49 (2000), 3–22.

³⁸ See Ep. 50 and Ep. 12 (G IV/57/4). For two important discussions of Spinoza's claims in Ep. 50, see Peter Geach, "Spinoza and the Divine Attributes," Royal Institute of Philosophy Lectures 5 (1971), 15–27 (p. 23), and Gottlob Frege, The Foundation of Arithmetic, ed. J. L. Austin, Evanston: Northwestern University Press, 1996, §49.

³⁹ Ep. 12 | G IV/57/8.

⁴⁰ Once I start tracing the causes of my concept of seven I leave the domain of mathematics and enter the study of real beings of my psychology. I stress that I leave the domain of mathematics, since once I trace the cause of my concepts of numbers it would longer by generally true that '5=5.'

⁴¹ For three alternative suggestions, see Warren Zev Harvey, "A Portrait of Spinoza as Maimonidean," Journal of the History of Philosophy 20 (1981), 156, 161, Frédéric Manzini, "D'ou vient la conniassance intuitive?," and Leen Spruit, "Cognitio," in Wiep van Bunge, Henri Krop, Piet Steenbakkers, Jeroen van de Ven (eds.), The Continuum Companion to Spinoza, London, Continuum, 2011, 183-186.

things" – raises quite a few questions. What does Spinoza mean by "the formal essence of certain attributes of God." Since the attributes themselves are said to "constitute the essence of God" (E1d4), 42 what could be their formal essence? Furthermore, it is not clear whether we should accept the NS version of this description ("to the adequate cognition of the formal essence of things")? Hinally, we may wonder about the precise nature of the inference from essence to propria – what makes an intellect capable of this inference, and how can we not know any effects of God's essence, if we have an adequate cognition of God's essence (as E2p47 states)? As I have warned you at the beginning of this paper, in spite of my best efforts, many of the riddles surrounding this doctrine still remain.

⁴² I take what "the intellect perceives" in E1d4 as true. For a defense of this reading and explanation of the "constitute" relation, see part two of my article, "The Building Blocks of Spinoza's Metaphysics: Substance, Attributes, and Modes" in Michael Della Rocca (ed.), The Oxford Handbook of Spinoza, Oxford: Oxford University Press (forthcoming).

⁴³ This could, of course, be just a loose talk on Spinoza's side by which simply meant the attributes in their unmodified form, or what he calls in E1p21 "the absolute nature" of an attribute.

⁴⁴ Garrett rejects the NS in his "Spinoza's Theory of Scientia Intuitina,"

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Kants Begriff des Transzendentalen und die Grenzen der intelligiblen und der sinnlichen Welt

Das fünfte Kapitel in Eckart Försters Die 25 Jahre der Philosophie

schen Philosophie vornimmt. Im fünften Kapitel setzt Förster an statisches Ganzes aufzufassen. Eckart Förster will demgegenüber gomena sowie in der Einleitung in der zweiten Auflage der Kritik der werde auch ich meine kritische Diskussion im zweiten bis vierten griff des Transzendentalen. Bei ihm diagnostiziert Förster eine einer detailgenauen Analyse aber Rätsel aufgibt, nämlich den Bebei einem Begriff, der zwar grundlegend für sein Projekt ist, in welche Revisionen Kant im Zuge der Ausarbeitung seiner kritineue Perspektiven darauf gewinnen, welche Veränderungen und folgenreiche Verschiebung; mit einer Erwiderung auf diese These Blickt man von heute aus auf die abgeschlossene Systematik von in einer Mitteilung Kants an den Herausgeber der Jenaischen Allge diesem Sinne zumindest zwischenzeitlich erwogen hat, zeigt sich grund stehen könnte. Dass Kant eine Erweiterung der Kritik in schen Philosophie in die Transzendentalphilosophie im Hinterbei dieser Verschiebung der Versuch der Einbeziehung der prakti Möglichkeit synthetischer Urteile a priori. Förster spekuliert, dass reinen Vernunft von 1787 verlagert sich der Akzent dann hin zu der durch die apriorische Referenzproblematik definiert. In den Prob reinen Vernunft von 1781 – wird die Transzendentalphilosophie Schritten. Zunächst – und d. h.: in der ersten Auflage der Kritik der Abschnitt einleiten. Försters Diagnose vollzieht sich in zwei Kants kritischer Philosophie, so läuft man leicht Gefahr, sie als ein

Übergänge – diskursiv oder intuitiv?

Essays zu Eckart Försters Die 25 Jahre der Philosophie

Herausgegeben von Johannes Haag und Markus Wild

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