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"There is an answer to every such question [about miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific methods."





Facts and the Relationship of Science and Religion



- Paleontologist, evolutionary biologist, and historian of science
- Taught at Harvard and New York University
- Famous for his theory of punctuated equilibrium
- Was very interested in the relationship between science and religion



"We may, I think, adopt this word and concept to express the central point of this essay and the principled resolution of supposed 'conflict' or 'warfare' between science and religion.



"No such conflict should exist because each subject has a legitimate magisterium, or domain of teaching authority—



Stepnen Jay Gould

"and these magisteria do not overlap (the principle that I would like to designate as NOMA, or 'nonoverlapping magisteria')."

[Stephen Jay Gould, "Nonoverlapping Magisteria," downloaded from http://www.stephenjaygould.org/library/gould_noma.html, assessed Mar. 26, 2008]



"The net of science covers the empirical universe: what is it made of (fact) and why does it work this way (theory).



Stephen Jay Gould 1941-2002 "The net of religion extends over questions of moral meaning and value.



"These two magisteria do not overlap, nor do they encompass all inquiry (consider, for starters, the magisterium of art andthe meaning of beauty).



Stephen Jay Gould 1941-2002 "To cite the arch cliches, we get the age of rocks, and religion retains the rock of ages; we study how the heavens go, and they determine how to go

to heaven."

















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[The God Delusion, 58-59]

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"There is an answer to every such question [about miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific methods." What methods for answering questions does Dawkins propose? "There is an answer to every such question [about miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific methods."

[Richard Dawkins, The God Delusion, 59.]

According to Dawkins, should scientific methods be used only for certain kinds of questions or for every kind of question? "There is an answer to every such question [about miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific methods."

[Richard Dawkins, The God Delusion, 59.]



If not, what kind of method should be used?

"There is an answer to every such question [about miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific methods." Why can't that method be used for questions about miracles? "There is an answer to every such question [about miracles], whether or not we can discover it in practice, and it is a strictly scientific answer. The methods we should use to settle the matter, in the unlikely event that relevant evidence ever became available, would be purely and entirely scientific methods."

[Richard Dawkins, The God Delusion, 59.]



Dawkins, having quoted Cambridge astronomer Martin Rees who said questions such as why anything exists "lie beyond science ... however, they are the province of philosophers and theologians" responded ...



"I would prefer to say that if indeed they lie beyond science, they most certainly lie beyond the province of theologians as well (I doubt that philosophers would thank Martin Rees for lumping theologians in with them). I am tempted to go further and wonder in what possible sense theologians can be said to *have* a province."

Richard Dawkins Completely Overlapping Magisteria













<text>



Reason

Believing something on the basis of demonstration.

Faith

Believing something on the basis of authority.





Fermat's equation: $X^{n} + y^{n} = Z^{n}$ This equation has no solutions in integers for $n \ge 3$.

Annals of Mathematics, 142 (1995), 443–551

Modular elliptic curves and

Fermat's Last Theorem By ANDREW WILES*

For Nada, Clare, Kate and Olivia

Cubum autem in duos cubos, aut quadratoquadratum in duos quadra Courses auson in euse casos, aut quaratoquadratam in duos quadratos toquadratos, el generaliter nullim in infinitium ultra quadratum potestatem in duos cjusdem nominis fas est dividere: cujus rei demonstrationem mirabilem sane detexi. Hanc marginis exiguitas non caperel.

Pierre de Fermat

Introduction

Introduction An elliptic curve over \mathbf{Q} is said to be modular if it has a finite covering by a modular curve of the form $X_0(N)$. Any such elliptic curve has the property that its Hasse-Weil zeta function has an analytic continuation and satisfies a functional equation of the standard type. If an elliptic curve over \mathbf{Q} with a given j-invariant is modular then it is easy to see that all elliptic curves with the same j-invariant are modular (in which case we say that the j-invariant is modular). A well-known conjecture which grew out of the work of Shimura and Taniyama in the 1950's and 1960's asserts that every elliptic curve over \mathbf{Q} is modular. However, it only because widely known through its publication in a paper of Weil in 1967 [We] (as an exercise for the interested reader!), in which, moreover, Weil gave conceptual evidence for the conjecture shuld imply Fermat's Last Theorem. The precise mechanism relating the two was formulated by Serve as the e-conjecture and this was then proved by Ribet in the summer of 1986. Ribet's result only requires one to prove the conjecture for semistable elliptic curves in order to deduce Fermat's Last Theorem.

"The work on this paper was supported by an NSF grant



Reason

Believing something on the basis of demonstration.

Believing something on the basis of Divine authority.

Faith

"For who cannot see that thinking [reason] is prior to believing [faith]? For no one believes anything unless he has first thought that it is to be believed.

[On the Predestination of the Saints, 5, as cited in Norman L. Geisler, ed. *What Augustine Says* (Grand Rapids: Baker Book House, 1982), 13]



"Those things are said to be present to the understanding which do not exceed its capacity so that the gaze of understanding may be fixed on them. For a person gives assent to such things because of the witness of his own understanding and not because of someone else's testimony.



"Those things, however, which are beyond the power of our understanding are said to be absent from the senses of the mind. Hence, our understanding cannot be fixed on them. As a result, we cannot assent to them on our own witness, but on that of someone else. These things are properly called the objects of faith."

[*Truth*, QXIV, Art. 9, reply, trans. James V. McGlynn (Indianapolis: Hackett, 1994), 249-250]



"One who believes [i.e., has faith] gives assent to things that are proposed to him by another person, and which he himself does not see."

[*Truth*, QXIV, Art. 9, reply, trans. James V. McGlynn (Indianapolis: Hackett, 1994), 249-250]



"Since man can only know the things that he does not see himself by taking them from another who does see them, and since faith is among the things we do not see, the knowledge of the objects of faith must be handed on by one who sees them himself. Now, this one is God, Who perfectly comprehends Himself, and naturally sees His essence."

[SCG, 3, 154 [1], trans. Vernon J. Bourke, (Notre Dame: University of Notre Dame Press), 239]







"Therefore in reading the profane authors, the admirable light of truth displayed in them should remind us, that the human mind, however much fallen and perverted from its original integrity, is still adorned and invested with admirable gifts from its Creator."

[Institutes of the Christian Religion,2.2.15, trans. Henry Beveridge, (Grand Rapids: William B. Erdmans), 236] John Calvin 1509-1564








"Men that will not listen to Scripture ... cannot easily deny natural reason There is a natural as well as a revealed knowledge, and the book of the creatures is legible in declaring the being of a God"

[Stephen Charnock, *Discourses upon the Existence and Attributes of God* (Grand Rapids: Baker, 1979), 27.]

Stephen Charnock 1628-1680

"God in regard of his existence is not only the discovery of faith, but of reason. God hath revealed not only his being, but some sparks of his eternal power and godhead in his works, as well as in his word. ... It is a discovery of our reason ... and an object of our faith ... it is an article of our faith and an article of our reason."

[Stephen Charnock, *Discourses upon the Existence and Attributes of God* (Grand Rapids: Baker, 1979), 27.]

Stephen Charnock 1628-1680













This reasoning is based an assumption of physicalism (the view that maintains that everything that is real is physical).











"Darwinian evolution is a wellestablished theory. "

"There is no question . . ."

Challenging evolution is on par with challenging the Moon landing.

Challenging evolution is on par with believing in a flat Earth.





Observations

This doesn't mean that Darwinism is false.

Observations

This doesn't mean that all these signers repudiate evolution entirely.

Observations It does mean that statements such as

"The basic Darwinian idea is about as secure as any in science."

"Darwinian evolution is a well-established theory."

"There is no question . . ."

are unwarranted.





"To explain the origin of the DNA/protein machine by invoking a supernatural Designer is to explain precisely nothing, for it leaves unexplained the origin of the Designer."

[Richard Dawkins, The Blind Watchmaker: Why the Evidence of Evolution Reveals a Universe Without Design (New York: W. W. Norton & Company, 1987), 141]











In any event, while there may be some debate as to how much of the nature of God is demonstrated by the scientific arguments,





the Aristotelian / Thomistic arguments demonstrate not only the existence of God, but all of His classical attributes as well.





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"Dawkins and company are ignorant of such claims and positively contemptuous of those who even try to understand them, let alone believe them. Thus, like a first-year undergraduate, he can happily go around asking loudly, 'What caused God?' as though he had made some momentous philosophical discovery."

http://www.theguardian.com/commentisfree/belief/2009/nov/0 2/atheism-dawkins-ruse (06/20/17)









"All three of these arguments [by Aquinas] rely upon the idea of a regress and invoke God to terminate it. They make the entirely unwarranted assumption that God himself is immune to the regress."





While it is true that Aquinas uses the expression "this cannot go on to infinity" in his famous arguments for God's existence ...

Dawkins is mistaken in assuming that Aquinas is making a Kalam Cosmological Argument.







But this is not at all what Aquinas is arguing when he is denying the possibility of an infinite regress. Dawkins is not alone in his mistaken assumption that Aquinas is arguing for the impossibility of an infinite regress in the Kalam sense.







"Even if we allow the dubious luxury of arbitrarily conjuring up a terminator to an infinite regress and giving it a name, simply because we need one, there is absolutely no reason to endow that terminator with any of the properties normally ascribed to God."

[Richard Dawkins, *The God Delusion* (Boston: Houghton Mifflin, 2006), 77] **Richard Dawkins**

"Even if we allow the dubious luxury of arbitrarfly conjuring up a terminator to an infinite regress and giving it a name, simply because we need one, there is absolutely no reason to endow that terminator with any of the properties normally ascribed to God."

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Even From the Scientific Evidence It Would Seem ...

 Since it is the cause of matter, it cannot itself be material.
Since it is the cause of time, it cannot itself be temporal.
Since it is the cause of space, it cannot itself be spatial.



Thus, we have an *immaterial, timeless, space-less cause of the existence of the universe which has unimaginable power ...*



Having demonstrated the existence of God, Aquinas goes on to show how all the classical attributes of God cascade seamlessly and necessarily from his basic metaphysical commitments.





















































