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11 LEIBNIZ Mind-body causation and pre-established harmony

Gonzalo Rodriguez-Pereyra

Causation was an important topic of philosophical reflection during the sevente century. This reflection centred around certain particular problems about causa one of which was the problem of causation between mind and body. The doctrine c pre-established harmony is Leibniz's response to the problem of causation between mind and body.

In this chapter I shall (a) explain the problem of mind-body causation; (b) ex-Leibniz's pre-established harmony; and (c) assess his case for it.

The problem of mind-body causation and the pre-established harmon

There is a regular correlation between what happens in the mind and what happe the body. This correlation is manifested in two groups of cases, one concer perception and sensation, and the other concerning action. For instance, if my were to be cut then, normally, I would feel a sensation of pain. Or if something certain characteristics, say brown and round, were placed within my visual fie certain circumstances, say under optimal conditions of illumination etc., then I v have a visual perception of something brown and round. Similarly, if in certain cir stances, for instance that my arm were untied, I had the desire of moving my arm, my arm would move.

The correlation between mind and body, or between states thereof, constitute data of the problem. And the problem consists in explaining these data. Initially looks like an easy problem: what explains the correlation between mind and be causation between mind and body. When I perceive or feel a sensation, the state part of my body, my brain, causes my mind to be in a certain state, a perceptual or the state of having a certain sensation. And when I act, a state of my mind state of desiring to move my arm, causes the state of being in movement in my a part of my body.

This solution was deeply problematic in the context of seventeenth-century metaphysics. Descartes was inclined towards such a solution, but it caused him and his followers quite a problem. For Descartes maintained the following two propositions:

- (1) Cause and effect must be similar.
- (2) Mind and body are dissimilar.

The sense in which mind and body are dissimilar is that they have different natures or essences. That is the sense in which, at least when both cause and effect are finite beings, they must be similar. Now, those two propositions are clearly inconsistent with this one, to which anyone adopting the causal explanation of the correlation between the states of mind and body is committed:

(3) Mind and body causally interact.

Some have argued that it was precisely this inconsistency that led to the downfall of Cartesianism as a school of thought in the late seventeenth century (Watson 1966). (That Descartes was committed to (1), or to a version of (1) that creates philosophical trouble, is controversial (see Loeb [1981] and Schmaltz [2006] for discussion and criticism of this view)).

To solve this problem it is sufficient to reject one of those three propositions – for any two of those three propositions are mutually consistent. Let us ignore propositions (1) and (2) and concentrate on proposition (3). Leibniz rejected (3): for him, the mind does not act upon the body and the body does not act upon the mind. This is not a doctrine that Leibniz restricts to the case of mind and body. For him only God can act upon a created or finite substance. But for Leibniz no finite, created substance acts upon another. So Leibniz denies any sort of causation among finite or created substances. As he says,

There is also no way of explaining how a monad can be altered or changed internally by some other creature ... The monads have no windows through which something can enter or leave. Accidents cannot be detached, nor can they go about outside of substances, as the sensible species of the Scholastics once did. Thus, neither substance nor accident can enter a monad from without. (Monadology, in Leibniz 1989: §7)

"Monad" is Leibniz's technical term for individual substances. Leibniz is, in the passage just quoted, putting forward an important metaphysical thesis: the denial of inter-substantial causation between created or finite substances. For Leibniz the world is composed of infinitely many finite substances which are completely causally isolated from one another, since they cannot act upon each other. This is what led Leibniz to say that every substance is like a world-apart, independent of any other thing save God (Discourse on Metaphysics, in Leibniz 1989: §14).

But if Leibniz denies inter-substantial causation, what is his solution to the problem of mind-body causation? How does he explain the correlations between the states of

the mind and the states of the body? This is the function of his doctrine of the prelished harmony. Leibniz states it in the following passage:

... the soul does not disturb the laws of the body, nor the body those of the soul and ... the soul and the body ... only agree together; the one acting free according to the rules of final causes; and the other acting mechanical according to the laws of efficient causes ... God, foreseeing what the free cau would do, did from the beginning regulate the machine in such manner, that cannot fail to agree with that free cause. (Fifth letter to Clarke, in Leibniz at Clarke 1956: Para. 92)

According to this doctrine although the mind and the body do not causally in God has made them coordinate perfectly, so that both act as they would act causally interacted. Thus the harmony that obtains between mind and body ha previously established by God.

But in what sense do the states of the mind and the body harmonise or corre They correspond in the way in which they would correspond if they causally inte with each other. For instance, God made the mind and the body such that when th is in a state of willing to move a certain arm in a certain way at time t,, the arm in qu moves in that way at t_i ; and when the body is cut with a knife, the mind has, at th same time or shortly thereafter, a sensation of pain. So although there is no substantial causation, substances act as if there were: "... bodies act as if there w souls (though this is impossible); and souls act as if there were no bodies; and both if each influenced the other" (Monadology, §81). Although for Leibniz no c substance acts upon another, there are passages where Leibniz speaks of a substance upon another. This does not mean that Leibniz contradicts himself: in such passag speaking with the vulgar while thinking with the learned. In Discourse on Meta \$15, Leibniz explicitly says that we must reconcile the language of metaphysic practice. Basically he says that we say that a substance A acts upon a substance B v expresses what happens in B more clearly than B expresses what happens in A expression is a non-causal relation of correspondence or correlation.

Thus Leibniz can solve the problem of mind-body causation. He does not de data to be explained, but instead of explaining the correspondence in terms of car between the mind and the body, he explains it in terms of a divinely pre-esta harmony between them.

But this doesn't mean that the Leibnizian world is wholly devoid of causation. are two kinds of causation for Leibniz:

- (1) Causation by God: God creates and sustains finite substances in existence.
- (2) Intra-substantial causation: the states of a finite substance are caused by the force inherent to the substance.

The doctrine of the pre-established harmony can be taken to consist of the fol elements:

- (a) No finite substance acts upon any other finite substance.
- (b) Every non-miraculous state of a finite substance is a causal effect of its inherent active force.
- (c) God has set up the mind and the body so that there is a correspondence between their states.

Component (b) is Leibniz's doctrine of the spontaneity of substances, according to which substances have their principle of action within themselves, and so each non-miraculous state of a substance is caused by something internal to the substance. (As stated, [b] is the view attributed to Leibniz by Bobro and Clatterbaugh [1996: 409]. Other authors, like Sleigh [1990] and Kulstad [1993] attribute to Leibniz a position, for which there is also textual basis, according to which every non-miraculous non-initial state of a substance is a causal effect of the preceding state. Bobro and Clatterbaugh [1996] discuss this other view.)

Note that the thesis of spontaneity is not equivalent to the thesis that no finite substance acts upon any other finite substance. Indeed the French philosopher Nicolas Malebranche (1638–1715) denied inter-substantial causation without maintaining intra-substantial causation and therefore without maintaining the thesis of spontaneity for finite substances. For Malebranche no finite substance is causally efficacious and so no finite substance acts upon any other finite substance, but he thought that every state of every substance is an effect not of its own active force but of the action of God.

It is important to note that the three components of the pre-established harmony are logically independent. For instance God could have set up the mind and body so that there is a correspondence between their states, by making it the case that each state of one is an effect of the other, and never of its own inherent active force. Thus (c) is logically independent of (a) and (b). Similarly (b) could be true even if God did not exist and some states of finite substances (or indeed all of them) were also an effect of other finite substances – so some states of substances would be causally overdetermined in this situation. Thus (b) is logically independent from (a) and (c). Finally, (a) could be true even if there were no correspondence between the states of the mind and body and each state of every substance were uncaused. Thus (a) is logically independent from (b) and (c). If so, that Leibniz has arguments for some of the components of the pre-established harmony is no guarantee that he has arguments for the others.

Note that the doctrine of the pre-established harmony is contingent, since it is not true in every possible world. It might be that Leibniz thought that components (a) and (b) of the pre-established harmony are necessary. But even if that is the case, the whole doctrine is contingent because component (c) is contingent, since there are possible worlds where minds and bodies don't harmonise with each other.

The arguments for the pre-established harmony

How does Leibniz argue for the pre-established harmony? One of Leibniz's characteristic theses on substance was that each substance has an individual concept so complete that it contains all the predicates of the substance, in the sense that it is possible to

deduce from its concept everything that happens to the substance in question. To one had perfect knowledge of the concept of Caesar one would be able to deduce he crossed the Rubicon and that he wrote *De bello Gallico*. Some texts suggest Leibniz attempted to derive component (a) of the pre-established harmony from doctrine about the individual concepts or notions of substances. The following pa provides textual basis for this interpretation:

The complete or perfect notion of an individual substance contains all it predicates, past, present and future. For certainly it is now true that a future predicate will be, and so it is contained in the notion of a thing [...] Strictly speaking, one can say that no created substance exerts a metaphysical action or influx on any other thing. For ... we have already shown that from the notion of each and every thing follow all of its future states. (*Primary Truths*, it Leibniz 1989: 32–3)

The idea seems to be that since all the predicates of a substance are contained concept, the having of any states corresponding to such predicates does not result the action of another finite or created substance. As pointed out by C. D. Broad (46–7), this idea is fallacious. From the fact that all predicates are contained is concept of a substance it does not follow that nothing external acts upon a subst After all, the concept of a substance could contain a predicate like "is caused to be substance x."

It might be replied that the concepts of substances do not contain such causal \mathfrak{p} cates. But for Leibniz *every* predicate of a substance is contained in its concept. one needs another argument to deny that such causal predicates are true of substance.

Since Leibniz's argument doesn't establish even (a), it doesn't establish the v doctrine of the pre-established harmony. Another argument against inter-substacausation appears in the Monadology (§7), where Leibniz says this:

There is also no way of explaining how a monad can be altered or change internally by some other creature, since one cannot transpose anything in it nor can one conceive of any internal motion that can be excited, directed augmented, or diminished within it, as can be done in composites, where ther can be change among the parts.

A problem with this argument is that it assumes that the only way in which a mould be affected would be by affecting its parts. But this assumption is unwarrasince Leibniz admits intra-monadic causation, and such causation cannot be effect affecting the monad's parts, since monads have no parts. And Leibniz does not say while intra-substantial causation does not work by affecting parts, inter-substacausation would (see Broad 1975: 48; Loeb 1981: 271–2).

In other texts, Leibniz attempts to establish the pre-establish harmony as a wather than parts of it. From 1695 onwards he usually uses an argument from a nation to support the pre-established harmony. Typically, he thinks that there are

theories that can explain the correspondence between mind and body, and that pre-established harmony is the best. These are the following:

- (a) Interactionism, or "the way of influence"
- (b) Occasionalism, or "the way of occasional causes"
- (c) Pre-established harmony.

This argument succeeds only if the list of solutions is exhaustive. But it is not, since Spinoza's solution has been left out. But in many writings Leibniz makes clear why he rejects Spinozism. Nevertheless it is not clear that Spinozism is the only omission. But let us ignore the inexhaustiveness of the list and proceed to examine Leibniz's reasons to discard interactionism and occasionalism.

What Leibniz calls "the way of influence" is the theory that there is causal interaction between the mind and the body. But Leibniz finds this inexplicable, because he thinks that if there were causal interaction between mind and body there would be transmission of properties from one to the other and that properties cannot be detached from one substance and pass into another (*Third Explanation of the New System*, in Leibniz 1998: §5; *Monadology*, §7). But these reasons are weak. It is not a very plausible model of causation that pictures it as a literal transmission of properties from one thing to another. Furthermore, this seems to undermine even cases of intra-substantial causation. For sometimes a mental state can cause another which is completely different from it and which has virtually no properties in common with it. For instance, sometimes a state of guilt can be caused by considering doing something wrong, but it is difficult to see how this causal fact could consist in the transmission of any properties.

The case against the way of influence is thus weak. Nevertheless it may have carried more weight in Leibniz's time than today, since in the seventeenth century it didn't seem so implausible as it seems today to demand some sort of similarity between causes and effects, a similarity that could be accounted for if one requires that causes transmit properties to their effects.

But discarding the way of influence is not enough to ensure the victory of pre-established harmony, for Leibniz still has to defeat occasionalism. What is occasionalism, and what are Leibniz's objections to it?

Occasionalism, developed in the seventeenth century by Malebranche and others, says that the only efficient cause is God. Like Leibniz, Malebranche denied that the pain I feel when my body is damaged is produced by the wound in the body. But for Malebranche, God intervenes and produces my pain when my body is damaged. Here the wound in the body is simply an occasion for God to produce the pain in the mind. Similarly, Malebranche denied that my desire to move my arm may cause my arm to move. According to him, when I have a desire to move my arm, God intervenes and makes my arm move. The desire to move the arm is simply an occasion for God to move my arm.

Since events in the mind and the body function as occasions for God to intervene one may call those events *occasional causes*. But here the word "cause" is deflated. The events in the mind and the body are not causes in the sense of efficient and productive

causes. The events in the mind and body have, of themselves, no pov anything anywhere. They just give God an opportunity to intervene as mind according to what happens in the body and vice versa. The only causal powers is God.

Leibniz liked to explain the differences between his theory and occ means of an analogy. Suppose there are two clocks that are perfectly co give exactly the same time. There are different ways of obtaining this pration. One way would be to have a man who constantly looks after adjusts them from moment to moment so as to maintain the clocks gitime. This corresponds to occasionalism. Another way would be to construct from the beginning, with such a skill and accuracy that we could be surely always keep the time together without needing to readjust them. This opere-established harmony (*Third Explanation of the New System*, §§2–4).

So occasionalism is like pre-established harmony in that it denies between created substances. But the difference between occasionalism lished harmony is that in occasionalism God is acting whenever a chang world. When I move my arm on occasion of my desire of doing so, God – he is making my arm move; when I feel pain on occasion of my body's b God is acting then – he is making me feel pain. In the doctrine of the I harmony God is not acting permanently in the world. He acts only on beginning when he creates the world and then, if he acts later, this is on miracle. But normally he does not intervene in world affairs. When my be I do not feel pain because God intervenes and produces it. I feel pain becaforce inherent in me produces pain in those circumstances.

What are Leibniz's arguments against occasionalism? Leibniz did not the alism was unintelligible, but he thought it had many problems:

- (1) Occasionalism explains phenomena in terms of miracles.
- (2) Even if occasionalism does not posit miracles, a pre-established has worthy of God.
- (3) Occasionalism rules out intra-substantial causation.
- (4) Occasionalism leads to monism.

The objection on which Leibniz put most weight was (1). Why did he talism explains phenomena in terms of miracles? Because occasionalism in terms of God intervening in the world and acting directly upon the body at any time the mind and the body change. The defender of occareply that when God acts upon the mind on occasion of the body and v not performing miracles. For God acts according to general laws. That is at time t_1 and under circumstances C God makes a body have property F mental state G, and at time t_2 and under the same circumstances God have property H on occasion of mental state G. Unless performing a always makes, under circumstances C, a body have property F on occas state G. So, according to occasionalists, occasionalism does not make the

miracles, because although God is permanently intervening in the world, he intervenes in a regular way.

Leibniz's response to this is to distinguish two senses of the word "miracle": the popular sense and the strict and philosophical sense. According to the popular sense a miracle is something rare and infrequent. But according to Leibniz this understanding of miracles is wrong. It makes, for instance, every unique or merely rare event a miracle. Leibniz points out that, on this understanding of the word, the existence of a monster should count as a miracle (Fourth letter to Clarke, in Leibniz and Clarke 1956: Para. 43). For Leibniz, a miracle, in the strict sense, is something that exceeds the powers and forces of any finite or created being, and so it is something that cannot be explained in terms of the powers and forces of created entities. And so occasionalism leads to a perpetual miracle. For on occasionalism created substances have no efficient or productive powers; they are incapable of causing anything. Which is why occasionalists postulate permanent divine intervention to account for changes. So, on Leibniz's understanding of miracles, occasionalism requires a perpetual miracle.

But why is this an objection? Why is it bad to explain phenomena in terms of God and miracles? After all, Leibniz also believed that God exists, and Leibniz did not deny God's power to intervene in the world and do what Malebranche thought God actually did. The answer is that Leibniz had a clear view about what sound philosophical methodology was. He thought that we must try to explain things by reference to the notion of the subject we are dealing with: "In philosophy we must try to show the way in which things are carried out by the divine wisdom by explaining them in accordance with the notion of the subject we are dealing with" (New System of the Nature of Substances and Their Communication, and of the Union Which Exists between the Soul and the Body, in Leibniz 1998: \$13). Of course, if we cannot explain things by reference to the notion of the subject we are dealing with, then we should find a different explanation, for instance one in terms of God's performing a miracle. But Leibniz's point is that other things being equal one should prefer an explanation that proceeds in terms of the powers and forces included in the notion of the subject. Occasionalism explains the states of a substance by appealing to God's intervention. Pre-established harmony, on the contrary, explains them by reference to the powers and forces included in the notion of the substance in question.

Both occasionalism and the pre-established harmony rule out inter-substantial causation. But pre-established harmony admits intra-substantial causation and so it can do without God and miracles. But when Leibniz presses objection (3) he is not normally thinking along these lines. What he has in mind, in general, is that by denying intra-substantial causation, occasionalism makes God responsible for our actions and so takes away our responsibility and makes God responsible for the evil in the world (On Nature Itself, in Leibniz 1989: §10). But this is not a good objection, for if accepted then Leibniz should accept that on his theory one is not responsible for what happens to other things as a result of one's actions. Perhaps God is not responsible for the suffering that an evil person inflicts, but if Leibniz's third objection to occasionalism goes through, then on Leibniz's view the evil person is not responsible either; instead the person responsible would be the recipient of evil.

Another problem Leibniz points out is that occasionalism consciousness of intra-substantial causation (On Nature Itself, §10). good point either, for the pre-established harmony also contradicts ou our influence on the body.

Objection (2) is a minor point. Leibniz says that even if occasiona to miracles, a pre-established harmony is more worthy of God. For it a machine that keeps working by itself than having to intervene agai it. But this is more rhetorical than philosophical.

Objection (4) is better, but it assumes Leibniz's own ideas about Leibniz thought that everything that is a substance acts, and so on or is only one substance, namely God. This makes occasionalism close to (On Nature Itself, §15). Why is a monism in which the only substance reason why such a position is bad might be that since there are modified God's and so this position makes God modified, i.e. limited (I owe Lodge. I know of no passages where Leibniz says explicitly that this is

So perhaps the best objection here is (1), if we understand it as b logical considerations. But the case against the way of influence although we saw as well that it might have been considered stronger seventeenth-century assumptions about causation. And we saw his ca (a) of the pre-established harmony on the basis of the doctrine of the of a substance is also weak. Thus, it seems that, overall, Leibniz's case the pre-established harmony is weak.

Acknowledgements

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Further reading

K. Clatterbaugh, The Causation Debate in Modern Philosophy 1637-1739 (New York; London: Routledge, 1999) is an accessible history of the debate on causation during the early modern period; it contains chapters on Descartes, Malebranche, Leibniz and any other major philosopher of the period. Mark A. Kulstad, "Causation and Pre-established Harmony in the Early Development of Leibniz's Philosophy," in S. Nadler (ed.), Causation in Early Modern Philosophy (University Park, PA: Pennsylvania State University Press, 1993), pp. 93-117, discusses the influence of Malebranche, Geulincx and Spinoza on Leibniz's thought on causation and pre-established harmony. The first full statement of Leibniz's mature philosophy was the Discourse on Metabhysics, and Leibniz presented a comprehensive statement and defence of the pre-established harmony in the New System of the Nature of Substances and Their Communication, and of the Union Which Exists between the Soul and the Body in Philosophical Texts, edited, trans. by R. S. Woolhouse and Richard Francks (Oxford: Oxford University Press, 1998); the final presentation of his philosophical system is the Monadology, in Philosophical Essays, edited, trans, by R. Ariew and D. Garber (Indianapolis, IN; Cambridge, MA: Hackett, 1989). Paul Lodge, "Leibniz's Commitment to the Pre-Established Harmony in the Late 1670s and Early 1680s," Archiv für Geschichte der Philosophie 80, no. 3 (1998): 292-320, argues that developments in Leibniz's thinking during his earliest years in Hanover suggest that he was committed to the pre-established harmony in all but name by June 1682 and possibly as early as the Summer of 1679. R. Woolhouse, "Leibniz and Occasionalism," in R. Woolhouse (ed.), Metaphysics and Philosophy of Science in the Seventeenth and Eighteenth Centuries: Essays in honour of Gerd Buchdal (Dordrecht: Kluwer Academic Publishers, 1988), discusses Leibniz's objections to occasionalism and their relations to Leibniz's objections to Cartesian interactionism and Spinozism.

12 BERKELEY Arguments for idealism

Tom Stoneham

Berkeley's idealism, which he called immaterialism, has two fundament we can call the ontological and the metaphysical.

(ONT) Everything which exists is either a mind or an object of percej (MET) Objects of perception exist when, only when, and in virtue of, by some mind.

(ONT) has some anti-realist consequences all on its own, ruling particulars (e.g. a small rock on a distant planet with no sentient life) at kinds (e.g. quarks). (MET) is common to Berkeley and indirect realists does not immediately have anti-realist consequences. But the combinatheses is a distinctive and radical view of the world, characterized, or tured, by the consequence that things pop in and out of existence whether they are perceived or not (Figure 12.1).

(ONT) and (MET) are indeterminate in a few ways. (ONT) does I kind of thing a mind is and what kind or kinds of thing might be objec while (MET) says nothing about how something could exist "in perceived." Berkeley says very little in his published works about what minds are, and we will follow him in that. He calls the objects of per and this leads many to think there is an easy answer to the question of exist in virtue of being perceived: they are mental items, feelings or pains and tickles. If that is right, immaterialism is even more radical everything that exists is mental, that there is no physical world, just happens to them.

But notice that someone who held (ONT) + (MET) and yet thought of perception were not mental, would be saying something much make common sense – so long as they could persuade us that (MET) might non-mental objects of perception. And this is exactly what Berkeley is his misleading use of "idea" for the objects of perception: the objects c