

Panpsychism and Russellian Monism

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Panpsychism has recently gained interest among analytic philosophers of mind. This is due largely to its close relationship with Russellian monism, according to which consciousness is constituted at least partly by intrinsic properties that serve as categorical grounds of dispositional properties posited by fundamental physics.¹ On a leading version of this view, those intrinsic properties are phenomenal, that is, experiential: properties that constitute what it is like to have an experience. Panpsychism seems to follow. Interest in Russellian monism has therefore led to interest in panpsychism.²

But what explains the recent interest in Russellian monism? Part of the explanation runs as follows. Over the last half-century or so, discussions of consciousness in analytic philosophy have focused largely on materialism/physicalism (we use the terms interchangeably) and dualism. But traditional forms of these views have considerable drawbacks. Traditional materialist views either disregard or distort the distinctive features of consciousness, and traditional dualist views fail to integrate consciousness adequately into the natural, causal order. Russellian monism seems to avoid both

¹ This characterization of Russellian monism will suffice for present purposes, but see Alter and Nagasawa 2012. Chalmers (1997) introduced the term “Russellian monism”.

² There are other reasons for the recent interest in panpsychism among analytic philosophers. A closely related reason is the influence of Galen Strawson’s work, e.g., Strawson 2006a and 2006b.

problems. Russellian monists reject the doctrine that they believe leads materialists to disregard or distort the distinctive features of consciousness: the doctrine that phenomenal properties are nothing over and above the properties physics reveals. On panpsychist Russellian monism, phenomenal properties are taken to be no less fundamental than physical properties. Dualism says that too. But unlike traditional dualist views, panpsychist Russellian monism is designed to accord consciousness a crucial role in (or closely related to) physical causation: the role of categorically grounding basic physical, dispositional properties. There is also a nonpanpsychist version of Russellian monism, which accords that same role to components of consciousness. Russellian monism is thus presented as a plausible alternative to traditional views: one that both does justice to the distinctive features of consciousness and integrates consciousness into the natural, causal order.³

In this chapter, we will consider whether Russellian monism has the advantages just described. More specifically, we will discuss two significant challenges to the claim that it does: one developed by Robert J. Howell and one by Amy Kind.⁴ Howell argues that Jaegwon Kim's exclusion argument can be modified to show that Russellian monism is untenable. And Kind argues that it is "simply an illusion" that Russellian monism "transcend[s] the dualist/physicalist divide."⁵ We will argue that neither challenge is insurmountable.

Panpsychist and panprotopsychist Russellian monism

³ Chalmers 2013.

⁴ Howell 2015, Kind 2015.

⁵ Kind 2015, p. 417.

In this section, we will say more about what panpsychist and nonpanpsychist Russellian monism are and why these views seem to provide theoretical advantages over traditional views.

What the views are

Following David Chalmers, we understand panpsychism as the thesis that some fundamental physical entities have conscious experiences, where this requires that all members of some fundamental physical types have conscious experiences. On this view, “there is something it is like to be a quark or a photon or a member of some other fundamental physical type.”⁶

We understand Russellian monism to be the view that consciousness is constituted at least partly by intrinsic properties that serve as categorical grounds of the dispositional properties posited by fundamental physics. Panpsychist Russellian monism results from combining this view with the thesis that those intrinsic properties are phenomenal.⁷

Not all versions of Russellian monism entail panpsychism. There is also panprotopsychoist Russellian monism, which results from identifying the intrinsic properties that ground physical, dispositional properties with what Chalmers calls *protophenomenal* properties. He writes,

⁶ Chalmers 2013, pp. 246-47. On this definition, panpsychism entails that consciousness is ubiquitous if the relevant fundamental physical types are. But there is no guarantee that the relevant physical types are ubiquitous. For a definition of panpsychism that ensures consciousness is ubiquitous, see Strawson 2006, p. 25.

⁷ Views that arguably qualify as panpsychist Russellian monism include, for example, Rosenberg 2004, Strawson 2006, and Goff forthcoming.

[L]et us say that *protophenomenal* properties are special properties that are not phenomenal (there is nothing it is like to have a single protophenomenal property) but that can collectively constitute phenomenal properties, perhaps when arranged in the right structure.⁸

To distinguish panprotopsychist Russellian monism from traditional materialism, which also holds that non-phenomenal microphysical properties collectively constitute phenomenal properties, Chalmers explains the specialness of protophenomenal properties as requiring that:

(i) protophenomenal properties are distinct from structural properties and that (ii) there is an a priori entailment from truths about protophenomenal properties (perhaps along with structural properties) to truths about the phenomenal properties that they constitute.⁹

We follow Chalmers here as well (we use the term “dispositional” where he uses “structural”, but we have the same “properties in mind”).¹⁰

⁸ *Loc. cit.*, p. 259.

⁹ *Loc. cit.* Views that arguably qualify as panprotopsychist Russellian monism include, for example, Coleman 2015, 2016, Stoljar 2001, Pereboom 2011, and McClelland 2013.

¹⁰ Structural/dispositional properties can be understood as those characterized by structural/dispositional truths, where a structural/dispositional truth is roughly a true sentence that is a priori equivalent to a sentence containing only mathematical, logical, nomic, and spatiotemporal terms. See Chalmers 2010, p. 120, fn. 17, Stoljar 2015, Alter forthcoming-a, and Ebbers n.d.

Russellian monism and the conceivability argument

To better appreciate why Russellian monism might compare favorably to traditional materialism and traditional dualism, consider how Russellian monists can respond to influential anti-materialist and anti-dualist arguments. For example, consider a version of the anti-materialist conceivability argument involving a zombie world, that is, a minimal physical duplicate of the actual world but without consciousness. The argument begins with the premise that such a world is ideally conceivable—that is, such a world cannot be ruled out by a priori reasoning—and ends with the conclusion that materialism is false.¹¹ The argument’s main steps can be summarized as follows:

1. A zombie world is ideally conceivable.
2. If a zombie world is ideally conceivable, then a zombie world is metaphysically possible.
3. If a zombie world is metaphysically possible, then materialism is false.

Therefore, materialism is false.¹²

Materialists have responded in myriad ways, but many find their responses inadequate.¹³

¹¹ For more on ideal conceivability, see Chalmers 2002.

¹² This formulation ignores various complications that are not directly relevant to our arguments. See Chalmers 2010, ch. 6.

Russellian monism is sometimes construed as a form of materialism.¹⁴ But it provides resources for responding to anti-materialist arguments that traditional materialist views do not. Russellian monists can respond to the above conceivability argument in at least three ways.

First, Russellian monists can reject premise 1, which says that a zombie world is ideally conceivable. This premise, they might argue, seems true only if we conflate the physical with the dispositional: we recognize that a consciousness-free dispositional duplicate of the actual world, or a *dispositional zombie world*, is ideally conceivable, and we tacitly infer that a zombie world is ideally conceivable. But that inference is questionable. A dispositional zombie world would resemble the actual world in all dispositional respects but, unlike a zombie world, perhaps not in all physical respects. Let us explain.

Arguably, a complete physical duplicate of the actual world would also have to include instantiations of any (proto)phenomenal properties that, in the actual world, ground the dispositional properties that physics describes. If so then, Russellian monists might argue, such a world would have to include consciousness. Here is why. If the grounding properties are phenomenal, then the duplicate world would contain consciousness by definition. If the grounding properties are protophenomenal, then the dispositional duplication guarantees that those protophenomenal properties (or instantiations thereof) will be configured so as to constitute consciousness, as they do actually. Either way, on this response, premise 1 comes out false.

¹³ See Alter and Howell 2012.

¹⁴ Pereboom 2011, Chalmers 2013, Montero 2015.

Alternatively, panpsychist Russellian monists can reject premise 2, which says that if a zombie world is conceivable then it is metaphysically possible. On this response, although there is no a priori entailment from the physical to the phenomenal, there is an a posteriori entailment: a zombie world is ideally conceivable but metaphysically impossible. The panpsychist Russellian monist might base this move on a semantic view about basic terms in fundamental physics such as “mass” and “charge”: a view on which such terms refer rigidly to the intrinsic, categorical phenomenal properties that ground basic dispositional properties, but in a way that cannot be discovered by a priori reflection.¹⁵

As a third alternative, Russellian monists can accept the argument’s anti-materialist conclusion. They can argue that (proto)phenomenal properties are nonphysical properties that nevertheless categorically ground physical properties. But the core idea underlying this third response is the same as that which underlies the other two: because Russellian monists reject the traditional materialist doctrine that the (proto)phenomenal is nothing over and above the dispositional, their view does not entail the sorts of claims that anti-materialist arguments such as the conceivability argument threaten to undermine.^{16, 17} Here are three examples of

¹⁵ This response might not be available to panprotopsychoist Russellian monists because of Chalmers’ stipulations about the protophenomenal properties ((i) and (ii) above): those stipulations imply that there is an a priori entailment from the protophenomenal and the dispositional to the phenomenal. In any case, this second response seems susceptible to the same sorts of objections often leveled against parallel appeals to a posteriori necessity made by traditional materialists (Chalmers 2013, p. 253). This does not appear to be true of the other two alternative Russellian monist responses we describe.

¹⁶ For this reason, Chalmers tends to formulate anti-materialist arguments such as the conceivability argument so that the conclusion is disjunctive: either materialism is false or Russellian monism is true (Chalmers 2010, ch. 6).

such claims: there are no phenomenal properties (a claim associated with eliminativist materialism); phenomenal properties are functionally definable (a claim associated with analytic functionalism); and the complete dispositional truth a posteriori necessitates and is ontologically prior to all phenomenal truths (a claim associated with nonreductionist materialism, that is, the view Chalmers (2010) calls type-B materialism). All versions of Russellian monism reject all such claims.

Russellian monism and the exclusion argument

Influential anti-dualist arguments fault dualism for inadequately integrating consciousness into the natural, causal order. We will focus on one of these arguments, known as the exclusion argument. The exclusion argument says that nonphysical mental properties have no work to do in bringing about physical events: all physical effects have entirely physical sufficient causes.¹⁸ We will summarize the exclusion argument's main steps as follows:

1. Mental distinctness: no mental events are identical to physical events.

¹⁷ Here and elsewhere we refer to “the traditional materialist doctrine that the (proto)phenomenal is nothing over and above the dispositional,” and not all familiar versions of materialism entail that doctrine. But the doctrine is entailed by some versions of materialism, and throughout we use “traditional materialism” (and “traditional physicalism”) to name those (and only those) versions. We use the unqualified “materialism” (and “physicalism”) for the broader view, which also includes versions that do not entail that the (proto)phenomenal is nothing over and above the dispositional. Note that (what we call) traditional materialist views need not entail that *nothing* is over and above the dispositional. On the contrary, on some such views, there are quiddities underlying basic physical dispositions. But those quiddities are not held to bear any special connection to consciousness. See, for example, Lewis 2009.

¹⁸ Kim 1989, 2000.

2. Physical adequacy: all physical events have sufficient physical causes (if they are caused at all).

Therefore, no physical events are uniquely caused by mental events.¹⁹

The exclusion argument is often adduced against interactionist dualism, on which mental events are said to help bring about physical events, and against nonreductionist forms of materialism, on which the mental and physical are numerically distinct but materialism is true nonetheless. Dualists and nonreductionist materialists have responded in myriad ways, but many find their responses inadequate.²⁰

Russellian monism is sometimes construed as a form of dualism and sometimes as a form of nonreductionist materialism.²¹ But it provides resources for responding to anti-materialist arguments that traditional versions of those views do not. Russellian monists can respond to the exclusion argument in at least three ways.²²

First, Russellian monists can deny premise 1, mental distinctness, arguing that (proto)phenomenal properties are not distinct from the dispositional

¹⁹ This formulation, which closely follows Howell (2015, pp. 23-24), ignores various complications that are not directly relevant to our arguments. See Kim 1989, 2000 and List and Stoljar forthcoming. In particular, we follow Howell in omitting a premise ruling out the possibility of rampant overdetermination.

²⁰ For a dualist response, see List and Stoljar forthcoming. For a nonreductionist materialist response, see Pereboom 2011.

²¹ For examples of nonreductionist materialist Russellian monism, see Pereboom 2011 and Montero 2015. Dualist versions are discussed in Alter and Nagasawa 2012 and Chalmers 2013 .

²² Here we follow Howell 2015, pp. 26-28.

properties they ground—and thus that events in which instantiations of (proto)phenomenal and dispositional properties figure need not be distinct. Suppose R is a categorical (proto)phenomenal property that grounds negative charge. On this first strategy, Russellian monists deny that there are two properties here, R and negative charge. Instead, there is one property and a law governing how things with that property behave. So, there is no competition among properties for causal efficacy: there is just a single property, which can be construed in different ways.

Alternatively, Russellian monists can deny premise 2, physical adequacy. They can argue that the properties physics describes cause nothing on their own: such properties would not even exist (or be instantiated) without their (proto)phenomenal grounds. Interactionist dualists too tend to deny physical adequacy. But they do so in a way many find unacceptable. They reject the causal closure of the physical, positing causal gaps among physical events as described by the physical sciences: gaps filled by nonphysical, mental events. Russellian monists need not posit any such gaps. Rather, this view enriches the basis of the complete physical causal chain already posited by the physical sciences.²³

Finally, Russellian monists can deny that the argument is valid. That is, they can argue that it does not follow from mental distinctness and physical adequacy

²³ There is a sense in which Russellian monists deny the causal closure of the physical. In their view, no causal explanation of physical events that refers only to dispositional/structural properties is complete. They think a complete explanation would have to refer to the intrinsic properties that ground physical, dispositional properties (Chalmers 2013, p. 258). But unlike traditional interactionist dualism, Russellian monism does not require causal gaps at the level of explanation as described by the physical sciences.

that mental events do not help cause physical events. Here Russellian monists would follow a well-trodden path. Several philosophers (who do not commit to Russellian monism) reject the argument's validity, often on the basis that some mental-physical relations can be modeled on the relation between determinables and determinates.²⁴ On this strategy, mental events contribute to physical causation in something like the way that being red (the more determinable property) and being scarlet (the more determinate property) can both issue in a physical effect without that effect being overdetermined. Russellian monists can offer a distinctive version of that strategy. Plausibly, just as there is in general no competition between determinable and determinate properties such as being red and being scarlet, there is in general no competition between categorical properties and the dispositions they ground: both make unique contributions to the causal process.²⁵ So, Russellian monists can argue, since (proto)phenomenal properties categorically ground physical, dispositional properties, the contribution of the latter properties in causing physical events does not compete with the contribution of the former. On this model, neither sort of property is causally redundant in the bringing about of physical events.

There is a common thread running through these three responses: Russellian monism provides a principled basis for rejecting the idea that dispositional and

²⁴ Yablo 1992, Bennett 2003, Shoemaker 2007, Ehring 2011, Wilson 2011.

²⁵ We follow Howell (2015, pp. 27-28) in making the analogy between the determinable/determinate relation and the ground/disposition relation. But actually the relations are disanalogous in some significant ways. For one thing, though the notion of a baseless disposition makes sense at least initially, the same cannot be said of the notion of a determinate without a determinable. Still, we don't believe the substantive use of the analogy is undermined by this point.

(proto)phenomenal properties compete in the way the exclusion argument requires. More generally, Russellian monism does not seem to be threatened in the way traditional dualism is by the problem of finding a role for (proto)consciousness in the causation of physical events.

Thus, Russellian monism might seem to have considerable advantages over traditional materialism and traditional dualism. But appearances can be deceiving. Howell and Kind each argue that in this case they are. We will now turn to their arguments, starting with Howell's, and explain some ways Russellian monists might respond.

The exclusion argument against Russellian monism

In Howell's view, although the original exclusion argument does not undermine Russellian monism, a modified formulation does. He writes,

My general argument will be that even if phenomenal properties cause things on the Russellian Monism picture, they do not cause things in virtue of their phenomenal nature.²⁶

Similar reasoning, he argues, applies to protophenomenal properties.²⁷ If his modified exclusion argument is sound, then on Russellian monism

²⁶ *Loc. cit.*, p. 28.

²⁷ For example, consider panqualityism (Coleman 2015, 2016), which in effect construes protophenomenal properties as unexperienced qualia. If Howell's argument is sound, then unexperienced qualia do not, in virtue of their qualitative natures, cause physical phenomena.

(proto)phenomenality makes no unique contribution to the causation of physical events, despite initial appearances to the contrary.

The modified exclusion argument

According to the original exclusion argument, physical and mental properties compete for causal influence. Howell argues that the Russellian monist's responses to that argument merely relocate this problem. The competition is no longer between properties, but rather between aspects of the properties in virtue of which the properties do causal work. But there is still causal competition and, he argues, the (proto)phenomenal aspects lose.

Howell illustrates the problem by describing three worlds:

Consider a world w_1 in which R, phenomenal redness, grounds the property of negative charge given the causal laws governing R in w_1 . Now consider world w_2 where G, phenomenal greenness, is covered by those same laws so that G grounds the causal powers associated with negative charge and R instead grounds the powers associated with negative spin. Finally, consider a third world, w_3 , in which the laws are such that either R or G can ground the powers of negative charge—R and G are governed by exactly the same laws in exactly the same ways.²⁸

Howell then compares R as instantiated in w_1 with R as instantiated in w_2 , noting

²⁸ *Loc. cit.*, p. 28.

that, “They are similar in one respect, their phenomenal character, but different in another, their causal profile.”²⁹ Next compare R as instantiated in w1 with G as instantiated in w2. These properties differ in phenomenal character while being similar in causal role. And the same point applies to R compared with G as both are instantiated in w3.

Howell writes,

In all cases...some similarities are grounded in the phenomenal character and others are grounded in the causal profile. Even given the ontology of Russellian Monism, therefore, there must be different relationships of grounding in virtue of which the different resemblance relations hold.³⁰

So, *RM properties*, as Howell calls them, have two aspects: one that grounds phenomenal resemblance relations and another that grounds causal resemblance relations. If so, the question arises, in virtue of which of these two aspects do RM properties have physical effects?

According to Howell, the answer is clear: physical effects occur in virtue of the latter aspect and not the former. He writes,

In the case of phenomenal causation, we want phenomenal properties to have causal power in virtue of their phenomenality. That means that we want the properties to cause things in virtue of that which grounds the similarity

²⁹ *Loc. cit.*, p. 29.

³⁰ *Loc. cit.*

between R in w1 and R in w2. But that doesn't appear to be the case since R in w1 and R in w2 are causally quite dissimilar. The point can be made within a world as well. We want the properties in w3 to cause things in virtue of that which grounds the similarity between R and G (in that world). It cannot be the phenomenal character because they are quite dissimilar phenomenally. It thus appears that these properties do not, after all, cause things in virtue of their phenomenal character.³¹

As Howell notes, similar considerations militate against the panprotopsycho- Russellian monist's contention that protophenomenal properties have physical effects. In his view, on panprotopsycho- Russellian monism there would be possible worlds corresponding to w1-w3, where 'R' and 'G' stand for protophenomenal rather than phenomenal properties.³² And these worlds would seem to create the same problem for panprotopsycho- Russellian monism that w1-w3 create for panpsycho- Russellian monism.

Howell states his modified exclusion argument as follows, where "an RM property is a property that has a phenomenal categorical ground and some causal dispositions"³³:

³¹ *Loc. cit.*

³² *Loc. cit.*, pp. 33-34.

³³ *Loc. cit.*, p. 32. 'Protophenomenal' can be substituted for 'phenomenal' in the argument to give the version corresponding to panprotopsycho- Russellian monism.

1. [T]here are two distinct and separable aspects of RM properties, those that ground phenomenal resemblance relations and those that ground resemblances between causal profiles.
2. [A]ll physical events have sufficient causes in virtue of those aspects that ground resemblances between the causal profiles of RM properties.

Therefore, the aspects of RM properties that ground phenomenal resemblances make no unique causal contribution to the physical world.³⁴

If that argument is sound, Howell suggests, then Russellian monism fares no better than dualism at integrating consciousness adequately into the natural, causal order.

In the previous section, we described three ways the Russellian monist could respond to the original exclusion argument. According to Howell, none of those responses succeeds against the modified version. On the first response (denying the original premise 1, mental distinctness), there is a single RM property rather than two properties, one categorical and one dispositional, that compete for causal influence. But that claim is consistent with the modified exclusion argument, which locates the competition within a single RM property: aspects of that property compete.

On the second response (denying the original premise 2, physical adequacy), physical, dispositional properties would not exist (or be instantiated) were it not for

³⁴ *Loc. cit.*, p. 32.

the categorical RM properties in which they are grounded. But it does not follow from that claim that the (proto)phenomenal aspects of RM properties contribute to physical causation. And, Howell argues, the modal separability of the (proto)phenomenal and dispositional aspects suggests that the former do not so contribute:

The fact that both R and G can ground certain causal dispositions within a world despite their phenomenal dissimilarity suggests again that it is not the phenomenality of the ground that is really doing the work. It is whatever it is in virtue of which they fall under the relevant laws.³⁵

Similar considerations, Howell argues, undermine the third response, denying the validity of the original argument. On that response, “the dispositional properties and the categorical grounds don’t causally compete because they enjoy such a tight metaphysical relationship.”³⁶ According to Howell, the relationship is not tight enough to undermine the argument’s validity if the two aspects of RM properties can come apart, as they would in w1 compared with w2 and in w3.

However, there are other ways Russellian monists could respond to Howell’s modified exclusion argument. For one thing, they could accept his causal inefficacy conclusion (“the aspects of RM properties that ground phenomenal resemblances make no unique causal contribution to the physical world”) and argue that this does not show that Russellian monism fares no better than dualism at integrating

³⁵ *Loc. cit.*, p. 31.

³⁶ *Loc. cit.*

consciousness adequately into the natural, causal order. (Proto)phenomenality, Russellian monists might argue, achieves the desired integration not in virtue of helping to cause physical events but rather in virtue of grounding physical properties. Causation is one thing. Grounding is another.³⁷ If (proto)phenomenality grounds physical, dispositional properties then, Russellian monists might argue, that is integration enough.

To some, that first response, if successful, would blunt the force of the modified exclusion argument. But others might find the causal inefficacy conclusion itself a significant strike against Russellian monism. For that reason, we will leave the first response aside and focus on two other responses, which are ways to avoid the causal inefficacy conclusion. One of those ways is to deny that the modal separability of the dispositional and (proto)phenomenal aspects of an RM property shows that the latter aspect does no causal work. Call that *the compatibilist strategy* or *compatibilism* for short. The other way is to deny that the two aspects are modally separable in the way that Howell's argument requires. Call that *the necessitarian strategy*.³⁸ We will discuss these strategies in turn.

The compatibilist strategy

In the actual world, chlorophyll plays a causal role in photosynthesis: it enables plants to absorb energy from light. Suppose that there is a possible world in which the same role is played by a biomolecule that is chemically distinct from

³⁷ See Lange 2017.

³⁸ The first strategy mentioned above, which depends on distinguishing grounding from causation, might lead to a version of necessitarianism. See the subsection on the appeal of necessitarian Russellian monism below.

chlorophyll. It would be a mistake to infer that in the actual world chlorophyll makes no unique causal contribution to photosynthesis. According to the compatibilist strategy, the modified exclusion argument makes an analogous mistake.

According to compatibilism, in w_1 negative charge has physical effects partly in virtue of R (phenomenal redness) even though in w_2 negative charge has those same effects partly in virtue of G (phenomenal greenness).³⁹ This is so, say compatibilists, because the grounding laws in w_1 differ from those in w_2 : they differ with respect to which phenomenal property plays which grounding role. Or consider w_3 , in which R and G each ground negative charge. According to compatibilism, w_3 's grounding laws entail that, in that world, both R and G help produce the effects of negatively charged particles. In general, the assumption that the same grounding role can be played by two different categorical properties (either across or within worlds) does not entail that those categorical properties are causally inefficacious. The grounding laws may be contingent. But they determine which (if any) categorical properties in a given world do the grounding work. And it is precisely such grounding work that constitutes the unique contribution (proto)phenomenal properties make to the causation of physical events.

Compatibilists could challenge premise 2 of the modified exclusion argument: “[A]ll physical events have sufficient causes in virtue of those aspects that ground resemblances between the causal profiles of RM properties.” Arguably, the aspects that ground resemblances between the causal profiles of RM properties are

³⁹ As usual, for panprotopsychoist forms of Russellian monism, substitute ‘protophenomenal’ for ‘phenomenal’ here.

not (proto)phenomenal properties. For example, R and G are phenomenally distinct and yet the causal profiles associated with R in w1 and G in w2 are exactly alike. Nonetheless, the compatibilist might argue, in w1 negative charge has the effects it does partly because it is grounded by R. In that world, given its contingent grounding laws, negative charge would have no physical effects if not for R's playing the grounding role it plays. That fact, say compatibilists, is compatible with a distinct property G playing that same role in worlds with different grounding laws, such as w2. Thus, the compatibilist might argue that premise 2 of the modified exclusion argument is false.

Compatibilism faces objections. For one thing, the photosynthesis analogy is inexact. When we described chlorophyll as playing a causal role in photosynthesis, we said that it enables plants to absorb energy from light. That description is fairly coarse-grained, and one might argue that this explains why the possibility of something else playing that role does not threaten the causal efficacy of chlorophyll in the actual world. But such coarse-grained descriptions are not relevant to the modified exclusion argument. For example, describing the causal profiles associated with R in w1 and G in w2 in a maximally fine-grained way would reveal no difference whatsoever between those profiles (that is true by stipulation). By contrast, differences would be revealed when comparing chlorophyll to its role-filler in another possible world, if both are described in a maximally fine-grained way. So, analogies to the photosynthesis case and similar examples are of limited use in supporting the compatibilist strategy.

Also, Howell might object that the compatibilist strategy leaves Russellian monist in essentially the same position as the interactionist dualist vis-à-vis integrating phenomenality into physical causation. Instead of the interactionist's contingent psychophysical laws, the Russellian monist posits contingent (proto)phenomenal-dispositional grounding laws. But that, Howell might argue, is no improvement. If so, Russellian monism still loses its alleged advantage over traditional dualism and the compatibilist strategy fails.

That objection is partly correct. The Russellian monist's grounding laws can seem arbitrary in the way that, to many, the interactionist dualist's psychophysical laws do. For example, the Russellian monist might seem to have no good explanation of why in w_1 R rather than G grounds negative charge. But there is a difference. The interactionist dualist rejects the causal closure of the physical, positing gaps in scientific explanations—gaps filled by nonphysical, mental events. The Russellian monist need posit no such gaps. Her grounding laws are, in that sense, compatible with the causal closure of the physical. That difference gives Russellian monism what many would regard as a significant advantage over interactionist dualism.

The necessitarian strategy

Compatibilist Russellian monists reject assumptions involved in Howell's inference from the modal separability of the (proto)phenomenal and dispositional aspects of RM properties to the conclusion that the former are causally inefficacious.

Russellian monists might instead reject his premise that those aspects are modally

separable in the way the modified exclusion argument requires. They might, for example, argue that the three worlds Howell imagines are not metaphysically possible. More specifically, they might deny that w_1 and w_2 are compossible and that w_3 is possible in its own right. This is the necessitarian strategy.⁴⁰

Howell considers the necessitarian strategy. He writes,

Such a ‘necessitarian’ Russellian Monism might in fact dodge the [modified] exclusion argument. Whether or not the base is phenomenal or protophenomenal, if the relationship between the causal and phenomenal features of the base is intimate enough—and metaphysical necessitation from the phenomenal to the causal probably qualifies—the [modified] exclusion argument doesn’t succeed.⁴¹

Actually, “metaphysical necessitation from the phenomenal to the causal” would seem to only partly qualify as supplying the requisite intimacy: that between phenomenal and dispositional features needed in order to reject all of w_1 - w_3 and thus to answer the modified exclusion argument. Granted, such metaphysical necessitation would guarantee that if R (phenomenal redness) grounds negative charge in w_1 , then there is no possible world w_2 in which R does not ground

⁴⁰ For necessitarian versions of Russellian monism, see Hassel Morch 2014 and Coleman 2015. Carruth’s (forthcoming) ‘powerful qualities’ view of dispositions suggests a roughly similar necessitarian doctrine, but he contrasts his view with Russellian monism.

⁴¹ *Loc. cit.*, pp. 35-36. Below, like Howell, we will not always qualify ‘phenomenal’ with ‘(proto)’, for ease of reading, but points should be taken to apply to the (proto)phenomenal as usual, *mutatis mutandis*.

negative charge—and thus that w_1 and w_2 are not jointly possible, sparing the Russellian monist that part of Howell's exclusion challenge. But what about w_3 , in which R and G (phenomenal greenness) have the same causal profiles? Metaphysical necessitation from the phenomenal to the dispositional does not seem to rule out that world as impossible. It rules out only that R or G should exist in *another* world without grounding negative charge. Yet the possibility of w_3 alone might be enough to motivate the modified exclusion argument. In w_3 , the phenomenal dissimilarity between R and G does not seem to correspond to a causal difference, and so the phenomenal similarity of R and G might appear to be causally irrelevant. As Howell says of this case, "it is not the phenomenality of the ground that is really doing the work."⁴² It may therefore seem that the necessitarian Russellian monist is no better off than the dualist (and perhaps worse off than the Russellian monist who adopts the compatibilist strategy).

So, to completely dodge the modified exclusion argument, it seems, the necessitarian Russellian monist might also have to defend metaphysical necessitation in the other direction, from the dispositional to the (proto)phenomenal. She might have to adopt a claim such as the following, where 'D₁' and 'D₂' encode maximally fine-grained descriptions of causal powers:

Necessarily, if dispositional aspects of RM properties D_1 and D_2 are identical, then so are the associated (proto)phenomenal aspects if such there be.

⁴² *Loc. cit.*, p. 31.

That additional claim would seem to rule out w3 as impossible: the additional claim does not countenance worlds in which distinct (proto)phenomenal aspects, such as R and G, are associated with the exact same causal powers. With both entailments in place, from (proto)phenomenal aspect to dispositional aspect and *vice versa*, necessitarian Russellian monism pairs causal roles with (proto)phenomenal aspects one-to-one with metaphysical necessity.

Howell rejects the necessitarian strategy as dialectically unacceptable. Adopting necessitarianism, he suggests, conflicts with the Russellian monist's "acceptance of...zombie-style conceivability arguments that pushed her to Russellian Monism in the first place."⁴³ That concern is natural enough. Necessitarian Russellian monism rules out premises that those arguments typically invoke. For example, if the view includes a necessary entailment from the dispositional to the phenomenal (as it might have to, as we argue above) then necessitarianism would rule out the premise that a zombie world is metaphysically possible.

On reflection, however, Howell's objection is not decisive. Russellian monists (necessitarian and otherwise) need not accept zombie-style conceivability arguments without qualification. These philosophers take those arguments to (i) refute the traditional materialist view that the phenomenal is nothing over and above the dispositional and (ii) support their view that consciousness consists at least partly in intrinsic, (proto)phenomenal properties that categorically ground

⁴³ Howell 2015, pp. 36-37.

physical, dispositional properties.⁴⁴ But (i) and (ii) are consistent with necessitarianism: they do not entail that the (proto)phenomenal and the dispositional are modally separable.

Howell raises another dialectical problem for the necessitarian strategy: the strategy would undercut the Russellian monist's advantages over traditional views. If she argues that zombie worlds are only *prima facie* and not ideally conceivable, "then she appears to be making the same sort of move as the type A physicalist with no more plausibility."⁴⁵ If she posits "necessities that hold despite conceivability," then "she has to allow the same answer for the type B physicalist and the property dualist."⁴⁶ Thus, he concludes, "Given this, necessitarian Russellian Monism might be conceptually coherent, but it is unmotivated."⁴⁷ Adopting necessitarianism, he suggests, would result in sacrificing the advantages over traditional positions that Russellian monism is often presented as having.

But that complaint could also be questioned. For example, consider the Russellian monist who accepts the conclusion of zombie-style conceivability arguments. As we have seen, her doing so does not require positing gaps in physical explanations. That is what is thought to make her reaction more plausible than the traditional interactionist dualist's way of accepting the arguments. Adopting

⁴⁴ See Alter 2016.

⁴⁵ Howell 2015, p. 37. The alphabetic taxonomy ("type-A materialism," for example) comes from Chalmers (1996, 2003-a). Type-A materialism says roughly that all phenomenal truths are a priori entailed by the complete physical truth. Type-B materialism says roughly that though some phenomenal truths are not a priori entailed by the complete physical truth, all phenomenal truths are metaphysically necessitated by the complete physical truth.

⁴⁶ *Loc. cit.*, p. 37.

⁴⁷ *Loc. cit.*

necessitarianism would not seem to threaten the Russellian monist's ability to react in that way.

What about the Russellian monist who says that a zombie world is only *prima facie* and not ideally conceivable? Would adopting necessitarianism entail that her position is no more plausible than type-A materialism, as Howell claims? One might resist that conclusion too. Consider a prototypical version of type-A materialism: analytic functionalism.⁴⁸ On this view, claims containing phenomenal terms such as “consciousness” and “pain” can be fully analyzed in functional terms such that all phenomenal truths (i.e., all truths about consciousness) are a priori entailed by the complete dispositional truth, where the latter is roughly the conjunction of all truths revealed by completed physics. It follows that a zombie world is not ideally conceivable. Indeed, it follows that not even a dispositional zombie world is ideally conceivable. Many find those results counterintuitive.

Now consider the necessitarian Russellian monist analogue of type-A materialism. On this view, there is also an a priori entailment to all phenomenal truths—but not just from the complete dispositional truth. Instead, the entailment runs from the conjunction of the latter and the premise that basic dispositional properties are categorically grounded. Unlike analytic functionalism, type-A necessitarian Russellian monism is consistent with the ideal conceivability (and metaphysical possibility) of at least one sort of dispositional zombie world: a minimal dispositional duplicate of the actual world in which basic dispositional

⁴⁸ Armstrong 1968, Lewis 1972.

properties are categorically ungrounded.⁴⁹ Thus, one might argue, type-A necessitarian Russellian monism and type-A materialism are not on a par.

Type-A necessitarian Russellian monism does, however, rule out certain scenarios that might seem conceivable. Among these are Howell's w3, and scenarios that differ from the actual world only with respect to which (proto)phenomenal properties ground basic physical dispositions. Also, consider the view's implications for Frank Jackson's case of Mary in the black-and-white room.⁵⁰ According to type-A necessitarian Russellian monism, there is a dispositional property D_r such that it is metaphysically necessary that if D_r is instantiated then so is phenomenal redness. On this view, that metaphysical necessity is not a posteriori. Does this entail that pre-release Mary can deduce all truths about what it is like to see red? Strictly speaking, that does not follow. But that is only because pre-release Mary cannot eliminate the possibility that any given dispositional property is categorically ungrounded. If not for that then, on type-A necessitarian Russellian monism, she could do the relevant deduction—a verdict some will find counterintuitive.⁵¹

However, it is unclear how much weight to put on such intuitions, given the distinctive claims Russellian monists make about the (proto)phenomenal properties associated with basic physical dispositional properties. The deducibility claim in

⁴⁹ For arguments that such a world is metaphysically possible, see McKittrick 2003.

⁵⁰ Jackson 1982, 1986. Mary is a colour scientist who is raised in a black-and-white room without seeing colors. She has perfect logical acumen and learns everything one could learn by reading black-and-white books and watching lectures on a black-and-white television monitor (the case takes place at a time when physics, chemistry, and neuroscience have been completed). Then she is released from the room and finally sees colors. Jackson's conclusion, which he takes to falsify physicalism, is that despite her complete scientific knowledge it is only at this point that Mary can know what it is like to see red.

⁵¹ Robinson (2015) emphasizes this sort of point.

question is that, setting aside the possibility of categorically ungrounded dispositional properties, Mary can deduce all truths about phenomenal redness from the complete dispositional truth. To confidently assess that deducibility claim, we must have a fairly clear understanding of the sorts of properties that the truths on both sides of the deduction concern. In particular, we must have a fairly clear understanding of the (proto)phenomenal properties that ground basic dispositional (or structural-dynamic) properties. On Russellian monism, however, this is not necessarily the case, at least not presently.

The protophenomenal properties posited by most panprotopsychist Russellian monists have intrinsic natures that, by hypothesis, we do not yet well understand. All we know is that these properties are nonphenomenal, that they are not just dispositional, and that, perhaps together with basic dispositional properties, they combine to constitute phenomenal properties. But that leaves their intrinsic natures largely unknown.⁵² Our grasp of the intrinsic natures of the phenomenal properties posited by panpsychist Russellian monists is not much better. Consider, for example, the phenomenal properties that might characterize what it is like to be an electron. Such properties might well differ substantially from any phenomenal properties with which we are familiar.⁵³

So, on both panpsychist or most panprotopsychist versions of Russellian monism, it is not the case that we have a fairly clear understanding of the properties

⁵² An exception is panqualityism, on which protophenomenal properties are unexperienced qualia of intrinsically the same kind as familiar, experienced qualia, e.g., pain qualia or color qualia (Coleman 2015, 2016). Their determinates may be quite alien, however.

⁵³ Chalmers 1996, pp. 293-97, Rosenberg 2004, p. 95.

that are supposed to ground basic structural-dynamic properties. Thus, we are not well positioned to make confident judgments about deducibility relations among truths concerning such properties. It would therefore seem premature to reject type-A necessitarian Russellian monism because it entails what might initially appear to be a counterintuitive position on Mary's ability to deduce such truths from other truths.⁵⁴

The Appeal of Necessitarian Russellian Monism

It might appear *ad hoc* to invoke necessitarianism in response to Howell's modified exclusion argument. However, Russellian monism is motivated partly by its promise to accord (proto)phenomenality a distinctive role in physical causation. It seems unfair to fault the Russellian monist for invoking a doctrine that helps her to make good on that promise. More broadly, whereas compatibilism appears more as a position to be adopted with the aim of blocking Howell's modified exclusion argument, necessitarian Russellian monism presents itself as a theory with independent appeal. In this subsection, we explain some of the theory's virtues.

First, one might argue that necessitarianism is a natural position for the Russellian monist to take. The Russellian monist proposes to find a distinctive role

⁵⁴ Another response would be to argue that doing the relevant deduction would still leave Mary ignorant of the nature of phenomenal redness in an important sense. Here is the idea. Type-A necessitarian RM entails that Mary can deduce any phenomenal truth *Q* from the conjunction of the complete dispositional truth and the assumption that all dispositional properties are categorically grounded. Even so, the view might not entail that this deduction would provide her with the sort of understanding of *Q* that one has when one has mastery of phenomenal color concepts. Arguably, however, the relevance of such a deducibility claim to the debate about consciousness and physicalism depends partly on the relevant deduction providing such understanding. See Alter 2013, forthcoming-b.

for (proto)phenomenality in physical causation by construing (proto)phenomenal properties as grounding physical dispositions. But it is widely accepted that a ground necessitates what it grounds.⁵⁵ Thus, the considerations about causation and grounding that motivate Russellian monism in the first place will naturally incline the Russellian monist towards the necessitarian variety in particular. And Russellian monists may allege a pleasing elegance to a view that tightly matches each fine-grained dispositional profile with a unique (proto)phenomenal property, removing the arbitrariness of the connection between the two that sets of worlds such as Howell's w1-w3 would illustrate.

There are other considerations the necessitarian Russellian monist might invoke to motivate her view. When we consider the macroscopic case—the phenomenal properties we experience as we go about ordinary conscious life—variation in phenomenal character seems to correspond with dispositional variation, if the two are described in a suitably fine-grained manner. The same type of pain will key different behavioral reactions depending as it comes in stronger or weaker forms: contrast gently touching a tack with sitting fully onto it with careless aplomb. The necessitarian Russellian monist might take such macroscopic correlation in phenomenal and dispositional variation to indicate that there is a similar correlation at the level of basic physical dispositions and their (proto)phenomenal grounds.

⁵⁵ See, for example, Schaffer 2009, Fine 2012. In this paragraph, we assume that the categorical grounding relation Russellian monists have in mind is or involves the grounding relation that Schaffer and Fine have in mind—or at least, that Russellian monists could understand grounding the Fine-Schaffer way. By contrast, when presenting compatibilism in the preceding sub-section, we assumed that the grounding relation might be metaphysically contingent.

After all, for Russellian monists the macroscopic interplay between phenomenal properties and dispositions is just the microscopic (proto)phenomenal/dispositional interplay writ large: the former kind of interplay is built of nothing but the latter kind. The analogy here would be with a property like mass: macroscopic transactions involving mass are composed of micro-instantiations of mass. Because the same property is in play at both levels, we are within rights to take the macroscopic behavior of mass as a good guide to its microscopic behavior—and indeed that is what scientists have done. Similarly, for the Russellian monist there is an intrinsic commonality between macroscopic phenomenal properties and the (proto)phenomenal micro-properties that compose them—this is most obvious in the case of a panpsychist grounding, but important too to panprotopsychoist versions of Russellian monism.⁵⁶ The analogy with mass thus arguably gives Russellian monists reason to take the macroscopic state of affairs as a guide to the microscopic. That in turn tends to support the necessitarian view that basic physical dispositions vary with (proto)phenomenal properties.

Consider also the relationship between phenomenal character and associated cognitive states such as belief. For example, as defenders of functionalist analyses

⁵⁶ E.g. panqualityist Russellian monism sees the protophenomenal properties as unexperienced qualia of intrinsically the same kind as the qualia we experience macroscopically (Coleman 2015, 2016). Even a non-panqualityist panprotopsychoism must see a significant continuity between protophenomenal properties and macroscopic phenomenal properties, for the latter are supposed to be composed of nothing but the former plus structural properties—they are just configurations of the protophenomenal. The alternative idea, that a certain configuration of the protophenomenal is the signal for an ontological ‘quantum leap’ to phenomenality, sounds too much like emergentism. In other words, that alternative seems tantamount to giving up on the idea that the phenomenal is nothing over and above the protophenomenal and the structural-dynamic—an idea to which panprotopsychoist Russellian monists are committed.

stress, phenomenal colors can be identified (at least in part) by the beliefs they dispose the subject to form, and different phenomenal colors dispose to correspondingly different beliefs.⁵⁷ This suggests that there is a close relationship between phenomenal colors and beliefs we form about them.⁵⁸ In light of that relationship, it is not so easy to conceive of an experience of phenomenal red, say, normally disposing one towards a belief that phenomenal blue is being experienced, or of two different phenomenal colors disposing one towards the same phenomenal belief. More broadly, necessitarian Russellian monists can absorb all that is plausible about physicalist attempts to functionalize phenomenal properties, connecting different phenomenal properties to different causal profiles with necessity, without accepting the stronger claim that phenomenal properties can be reduced to functional or causal properties.

Further, the necessitarian Russellian monist might argue that implausible consequences follow from allowing (proto)phenomenal properties to vary from world to world with respect to which microphysical dispositional properties those properties ground. The argument runs, in outline, as follows. Assume for *reductio* that such variation is possible, and consider a set of different (proto)phenomenal properties that are instantiated at the microscopic level. Since micro-dispositional

⁵⁷ See, e.g., Shoemaker 1996.

⁵⁸ Some have felt that the relationship between phenomenal qualities, including phenomenal colors, and beliefs about them is so intimate that a phenomenal concept, and the belief built of it, incorporates the phenomenal quality experienced (Gertler 2001, Chalmers 2003-b). This is then taken to explain our dispositions to phenomenal beliefs and the accuracy of those beliefs. These theorists share with the functionalists the sense of the tight relation between a phenomenal color and the beliefs it tends to produce. Of course, to say that such relations are tight is not to deny that there are exceptions or that erroneous beliefs about one's own experiences can be produced under abnormal circumstances.

variation will allow for macro-dispositional variation, there would then seem to be nothing to prevent the members of this set from together constituting a given macroscopic phenomenal property M such that in different instantiations M supports clashing macrophysical dispositions within a single world, even if all surrounding circumstances are held equal. For example, there might then be a world in which the same kind of horrific pain sometimes grounds painful-stimulus-avoidance behavior and at other times painful-stimulus-seeking behavior, with everything else being equal about the two situations. One might argue that such cases strain credulity—and that there are no such possible worlds. This, the necessitarian might argue, provides a further reason for the Russellian monist to hold that any given (proto)phenomenal aspect necessitates a unique causal profile.⁵⁹

What about the reverse direction, necessitation from a given causal profile to a unique (proto)phenomenal property, as articulated by the claim that we added to Howell's formulation of necessitarianism: necessarily, if dispositional aspects of RM properties D_1 and D_2 are identical, then so are the associated (proto)phenomenal aspects if such there be? This might seem harder to motivate. It is a familiar view that causal or dispositional roles are multiply realizable. This idea can tend to make it seem obvious that a given dispositional property might have been grounded in

⁵⁹ It is perhaps notable that Howell, when building his case against Russellian monism, does not describe a case of a single (proto)phenomenal character playing different physical dispositional roles within a world—such as a world where phenomenal redness plays the positive-charge role as well as the negative-charge role. If this is because he too suspects such a case would strain credulity, then he also might feel some of the intuitive pull of necessitarian Russellian monism that we highlight here.

distinct (proto)phenomenal properties.⁶⁰ However, this is less obvious than it might seem.

When we consider multiple realization, we tend to think of macroscopic examples. For example, we recognize that a corkscrew can be realized by steel, aluminum, or any number of different materials. Moreover, we tend to describe such examples in a relatively coarse-grained way, e.g., in terms of a corkscrew's functioning to open wine bottles. Intuitively, it is clear that, thus described, the kind *corkscrew* is multiply realizable. It is not clear, however, that intuitions of that sort carry over to the cases relevant to necessitarian Russellian monism. That is, it is not clear that intuitions about corkscrews and such provide much reason to think that microphysical dispositions, described in a maximally fine-grained way, are multiply realizable. Is it really so easy to imagine that varying the categorical grounding of some basic microphysical disposition would make no causal difference whatsoever—that one and the same causal profile could be grounded in distinct (proto)phenomenal properties in different possible worlds? This is not obvious.

Suppose that, in the actual world, R categorically grounds negative charge. Presumably, if R plays this grounding role, this is not a brute fact. Rather, presumably R plays this role partly because of R's intrinsic nature: something about R's nature makes it suitable for grounding negative charge. But if that is correct, then not just any property could play that particular grounding role: only a property with a suitable intrinsic nature could. It does not follow that only R has the requisite intrinsic nature. But neither is that claim obviously false. At least, we should not

⁶⁰ But see Strawson n.d.

dismiss the claim based only on considerations related to macroscopic multiple realization. More argument would be needed to undermine the necessitarian Russellian monist's doctrine that a given physical disposition can of necessity have but a single (proto)phenomenal ground.

Does Russellian monism transcend the dualist/physicalist divide?

Like Howell, Kind challenges the idea that Russellian monism has certain advantages over traditional views. But her argument is different. She targets the claim that Russellian monism “transcend[s] the dualist/physicalist divide,”⁶¹ arguing that “this is simply an illusion.”⁶² What exactly she means by “transcend[ing] the dualist/physicalist divide” is not entirely clear, as we will shortly explain. But one point she emphasizes is that Russellian monism leaves unresolved at least some of the main issues over which dualists and physicalist disagree. She is right about that. But she seems to infer that Russellian monism lacks the advantages it is supposed to have over traditional views. And that inference, we will argue, is not justified.

Kind's argument

Kind distinguishes between *phenomenal* Russellian monism and *physical* Russellian monism, or *phenomenal monism* and *physical monism* for short. These two views differ over the nature of the intrinsic properties that categorically ground

⁶¹ Kind 2015, p. 417.

⁶² *Loc. cit.*

basic dispositional properties. She calls those intrinsic properties *inscrutables*.⁶³ Phenomenal monism construes inscrutables as phenomenal properties, and physical monism construes them as physical properties. She notes that, for the purposes of her main argument, what ultimately matters is that on physical monism the inscrutables are nonphenomenal.⁶⁴ So, phenomenal and physical monism correspond at least roughly to what we call panpsychist and panprotopsyichist Russellian monism.

Kind writes,

[T]here are really only two possibilities for the nature of inscrutables: they must be either phenomenal or physical. That means that a Russellian monist must endorse either phenomenal monism [or] physical monism. To my mind, these two views are as different from one another as traditional dualism and traditional physicalism are. Any attempt to adjudicate between them will have to settle the question as to whether consciousness is a fundamental part of nature—the same question that needs to be adjudicated in the debate between dualism and physicalism.⁶⁵

Call the question as to whether consciousness is a fundamental part of nature *the fundamentality question*. Kind's argument can then be summarized as follows:

⁶³ Here Kind follows Montero 2015.

⁶⁴ Kind 2015, p. 415.

⁶⁵ *Loc. cit.*, p. 418. Kind argues in detail for her claim that “the inscrutables...must be either phenomenal or physical” But that claim does not seem to be required by her main argument: her argument would not be weakened by the assumption that there are not just two but rather three or more options for what the inscrutables might be.

1. Russellian monism transcends the dualist/physicalist divide only if it settles the fundamentality question.
2. Russellian monism is neutral between phenomenal monism and physical monism.
3. If Russellian monism is neutral between phenomenal monism and physical monism, then Russellian monism does not settle the fundamentality question.

Therefore, Russellian monism does not transcend the dualist/physicalist divide.

What Kind's argument does and does not show

Note that Kind does not conclude that no specific version of Russellian monism transcends the dualist/physicalist divide. Her conclusion is rather that Russellian monism as such, the generic form, fails in that regard. Bearing that in mind, let us assess her argument.

Premises 2 and 3 are plausible, and we grant them. The argument is valid. That leaves premise 1. This premise, along with the conclusion, could be understood in at least two different ways, depending on what it means to transcend the dualist/physicalist divide. We will discuss them in turn.

Perhaps what it means to transcend the dualist/physicalist divide is to settle the fundamentality question. Call this *the pleonastic interpretation*. On the pleonastic

interpretation, premise 1 is pleonastic and the argument's conclusion seems unobjectionable. Unobjectionable but not insignificant: if anyone believes that (generic) Russellian monism settles whether consciousness is a fundamental part of nature, then Kind's argument (on the pleonastic understanding) should convince him that he is mistaken. Note, however, that settling the fundamentality question is not among the advantages that (generic) Russellian monism is typically presented as having. On the contrary, Russellian monists argue among themselves as to the best form for the inscrutables to take. So, on the pleonastic interpretation, Kind's argument does not show that Russellian monism lacks any of its advertised advantages.

On an alternative interpretation, to transcend the dualist/physicalist divide would be to move the discussion forward: to achieve relevant things that have eluded traditional views. Kind's discussion of her argument's implications could be read as supporting this interpretation. For example, she suggests that her argument shows that Russellian monism is over-hyped: that "the excitement about Russellian monism is misplaced."⁶⁶ But on this alternative interpretation, premise 1 ("Russellian monism transcends the dualist/physicalist divide only if it settles the fundamentality question") is questionable. Russellian monism is touted as providing precisely what traditional views have arguably failed to provide: a way to integrate consciousness deeply into the natural, causal order without disregarding or distorting consciousness's distinctive features. If the view achieves that result, it does so by how it applies the dispositional/categorical distinction to the mind-body

⁶⁶ *Loc. cit.*, p. 402.

problem: (proto)phenomenal properties are said to figure into physical causation by categorically grounding basic physical dispositional properties. Applying the dispositional/categorical distinction in this way does not require taking a stand on whether the categorical grounding properties are phenomenal or nonphenomenal. Indeed, panpsychist and panprotopsychist Russellian monists, who differ over precisely that issue, lay equal claim to the desired result. Thus, the advance that Russellian monism promises seems not to depend on settling the fundamentality question, contra Kind's premise 1 (on the second interpretation of "transcending the dualist/physicalist divide").

Kind allows that Russellian monism might make "*some progress*."⁶⁷ She concedes that phenomenal monism might improve upon traditional dualism and that physical monism might improve upon traditional materialism. Yet, she suggests, the fact that Russellian monism does not settle the fundamentality question implies that, with respect to the debate between dualism and physicalism, Russellian monism leaves us "essentially back where we started."⁶⁸ But that does not follow.

Arguably, where we started was with traditional dualism having no plausible way to causally integrate consciousness into nature (no way that evades causal arguments such as the exclusion argument) and traditional materialism having no plausible way to answer the anti-materialist arguments (no response that avoids disregarding or distorting consciousness's distinctive features). By construing (proto)phenomenal properties as the categorical grounds of physical dispositional

⁶⁷ Kind 2015, p. 420. Italics in original.

⁶⁸ *Loc. cit.*, p. 420.

properties, Russellian monism provides a framework for developing a view that has neither of those shortcomings: a view that adequately integrates consciousness into nature without denying or distorting consciousness's distinctive features. In that sense, Russellian monism takes us to a different place. The generic form of this view does not take us to the final destination, if that means settling the fundamentality question. But neither does it purport to do so.

To be sure, Russellian monists will ultimately want to settle the fundamentality question. For them, this means settling on the best version of Russellian monism and, in particular, deciding between (what Kind calls) phenomenal monism and physical monism. But the progress achieved by the generic form should not be underestimated. Adopting the generic form implies reconceiving of the framework within which the fundamentality question is to be addressed. That is no mean feat.

Conclusion

Only a decade or two ago, it would have been fair to say that panpsychism was not taken seriously by most analytic philosophers of mind. *Reductio ad panpsychism* would widely have passed as a valid form of argument: a special case of *reductio ad absurdum*. Recent interest in panpsychist Russellian monism has changed all that. We believe this is a change for the better, especially given the longstanding interest in panpsychism from a global, historical perspective.⁶⁹ Old questions are being

⁶⁹ Seager 1995, Chalmers 1996, Skrbina 2005, Strawson 2006a.

recast in new ways, and there appears to be hope for resolving a lamented impasse between materialism and dualism.

It is not all sweetness and light for those with panpsychist sympathies. While leading versions of Russellian monism imply panpsychism, there is also a panprotopsychist version that seems no less viable.⁷⁰ And Russellian monism faces serious objections.⁷¹ We have tried to address two of these, one developed by Howell and one by Kind. We have argued that neither is decisive. In our view, panpsychist Russellian monism remains a contender position: one that is well worth investigating and developing. In particular, compatibilist and necessitarian versions of the view seem worthy of further attention.⁷²

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⁷⁰ Pace Strawson 2006a, 2006b and Goff 2015. For a defense of panprotopsychism against Strawson's and Goff's arguments, see Alter forthcoming-a.

⁷¹ For example, in addition to Kind 1995 and Howell 2015, see Seager 1995, Chalmers 2013, 2016, Ney 2015, Robinson 2015, Stoljar 2015, Pautz n.d., Ebberts, n.d..

⁷² For helpful comments and discussions, we thank Robert J. Howell, Amy Kind, and Galen Strawson.

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