Panpsychism and Compositionality: A solution to the Hard Problem

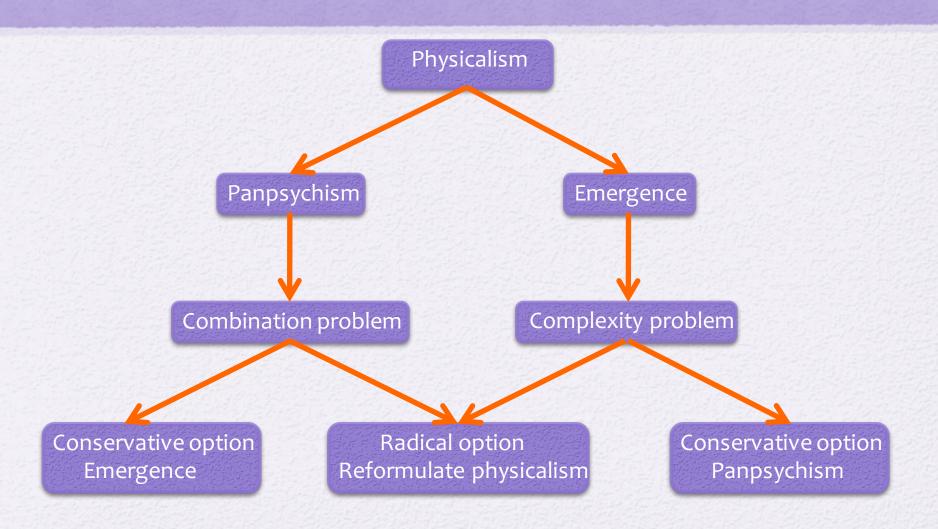
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Realistic physicalism & experience

- How do we accommodate experience (Hard Problem)?
- When more radical alternatives like idealism or mysticism are ruled out, only physicalism remains.
- Emergence most popular physicalist approach.
 - Complexity problem: When does experience emerge?
- Does realistic physicalism entail panpsychism?
 - Combination problem: How do qualia combine?
- Are these the only alternatives at present?

Panpsychism, Emergence & Physicalism



Phenomenology: Thin Subjects

- Persons and selves as subjects of experience (SoE) (Lowe).
- "A subject of experience is something that exists only if experience exists of which it is a subject" (Strawson).
- "The thinking or the existence of the thought and the existence of my own self are one and the same" (Kant).
- Thin subjects (SESMET): subjects that persist for brief periods of time, a "gappy process" (Strawson).
- mere self in Mahayana Buddhism (Tsongkhapa).
- Notion goes back at least to Frege in the west.

Physicalism = Physicalism + X

Add ingredient X to physicalism.

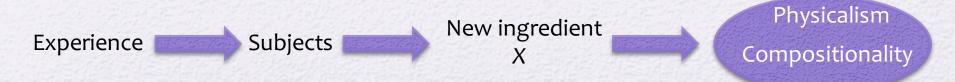


- Physicalism should remain physicalism despite X.
- Re-examine panpsychism and emergence in light of new physicalism.

 It is accompanied by experience because X is always accompanied by experience.

Compositionality

- A counter-intuitive proposal.
- Assertion: Physicalism + Compositionality accompanied by experience.
- Letter but not the spirit of panpsychism: fundamental but not pan.
- Spirit but not the letter of emergence: non-reductive but fundamental.



Restricted Compositionality Principle

(RCP)

Physicalism New ingredient Subjects Experience Compositionality

- Kathrin Koslicki's work.
- RCP: Some objects m_1, \ldots, m_n compose an object O, of kind K, just in case m_1, \ldots, m_n satisfy the constraints f_1, \ldots, f_n dictated by some formal components, associated with objects of kind, K.

Weak Supplementation Principle.

- Avoid proliferation of sui generis relations.
- Relies on ontology of natural kinds.
- Material and formal parts of object (composition).

SoE as Natural Kinds

- Subjects of Experience (SoE): Restricted compositionality principle requires commitment to ontology of natural kinds.
- SoE as a natural kind term:
 - Appeal to same-kind relation between SoE objects.
 - Non-descriptive and does not require rigidity (Koslicki).
 - Requires specification for picking out same kind object.
- Intersubjectivity as specification? Clearly controversial.
 - I see You, Y'All, namaste.
 - Second person as foundation for SoE?
 - Could be wrong but more importantly could also be right.
- SoE in psychology:
 - analogous to species in biology.
 - Different SoE: prehension, sensation, emotion, cognition, visualization.

From Physicalism to Physics

Need new idea to set up compositionality in physics

Second Quantization

- Tucson series of conferences obsessed with first quantization: how do particles act like waves.
- Second quantization: How do waves act like particles? Sets up field-particle relation.
- Set up SoE compositionality relation using second quantization.

``First quantization is a mystery but second quantization is a functor''
John Baez, Somewhere on the Internet.

SelfOn: Physical thin subjects

- Fundamental physics: Set of quantum fields.
- Compositionality relation linking SoE to physical.
- SelfOn (selfon): Thin subjects realized from basic fields.
- Akin to a new particle formed by second quantization.
- SoEs: objects of natural kind SelfOn.



Star Trek DS9: The Search (Part I)
URL withheld

Phenomenology, Philosophy and Physics

Phenomenology	Philosophy	Physics
Thin subject	Subject of Experience	SelfOn
	Compositionality relation	2 nd quantization: Akin to Particle Field
Experience	Physical property	SelfOn state
Intersubjectivity	SoEs form natural kind	SelfOn interactions
Gappiness	Spatiotemporal bound	SelfOns appear and decay

Fields, Particles and SelfOns

- Eliminativism: There are only (quantum) fields, no particles, no selfons.
- Naturalistic dualism: There are only (quantum) fields and selfons.
- Materialistic dualism: There are (quantum) fields, particles and selfons.
- Interactionist dualism: There are only particles and selfons.
- Materialistic monism: There are only (quantum) fields and particles, no selfons.

Objections

- ① There is experience (Chalmers).
- Experience implies (thin) subjects of experience (Strawson).
- 3 Everything is physical or entailed by the physical (Stoljar).
- 4 SoE are physical compositions of a certain natural kind (foll. Koslicki).
- 5 SelfOns are SoEs set up via new compositionality relation akin to field to particle 2nd quantization.

- Denied by eliminativists.
- Denied by materialists and some panpsychists.
- Denied by interactionist dualists.
- Denied by idealists and property dualists.
- Denied by physicists?

Discussion

- "Why is it accompanied by experience?" (Chalmers).
- ⁽²⁾ "Everything is physical or entailed by the physical" (Stoljar).
- "Until more is said it amounts to simply dismissing of... the intuition that the experiential cannot emerge from the non-experiential" (Strawson).
- Expand physicalism: Physicalism = Physicalism + y (Montero).
- (5) Compositionality: "There exists a y the x's compose if and only if the activity of the x's compose a life" (vanInwagen).
- © Experience implies a subject of experience (Lowe, Frege).
- Subjects of experience (SoE) are physical compositions of a certain natural kind (following Koslicki).
- SelfOns formed by 2nd quantization are SoEs accompanied by experience.

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Thank You

We are indebted to Leopold Stubenberg for pointing out Koslicki's work

All mistakes are of course ours

Substances versus properties

- Approach raises intriguing picture of substance (SoE) linked to properties via compositionality relation.
- Not property or substance dualism but weird hybrid.
- No worry over natural kinds if there is only one kind of substance, namely, SoE.
- Substance introduced only to accommodate experience seems jury rigged.
- May be democratizing Spinoza (matter and mind as properties of single substance/God).