

Sidestepping the Rhinoceros – Copernicus, Pragmatism and Quantum Entanglement - Huw Price

Abstract:

In previous work we have proposed that Bell correlations are a special sort of selection artefact, explained by a combination of (i) collider bias and (ii) a boundary constraint on the collider variable. This hypothesis requires no direct causal influence outside lightcones, and hence offers a new way to reconcile Bell nonlocality and relativity. This piece outlines a new argument for the proposal. We note that it is valid for a special ('VV-shaped') class of Bell experiments involving delayed-choice entanglement swapping, and then explain how it can be extended to the general ('V-shaped') case.