

Why quantum states represent belief rather than knowledge

Thursday 20 June 2019 09:40 (40 minutes)

The title of this conference, “quantum limits of knowledge”, expresses the common view that quantum mechanics imposes restrictions on the knowledge we can have about a physical system. QBism challenges this view by taking quantum states to represent states of belief rather than states of knowledge. This talk explains how this shift in language allows QBists to view the Born rule as an addition to – and not a restriction of – probability theory.

Presenter: SCHACK, Ruediger (Royal Holloway University of London)

Session Classification: Quantum Bayesianism and Copenhagen Interpretation