
RAINER DICK, University of Saskatchewan

Where are the photons?

The question for a probability measure for photon location is an old and still controversial topic of quantum theory. However, progress in photonics and quantum technology does not care about this debate. Single-photon sources and detectors have been around for decades, and single-photon diffraction has been observed since 2013. In the talk, I intend to provide a summary of the relevant technologies, a description of the problem of photon location, and an overview of different proposals for probability measures for photon location.