

---

**MAN-DUEN CHOI**, University of Toronto

*The Principle of Locality made simpler but harder*

In physics, the Principle of Locality states that an object is influenced directly only by its immediate surroundings. This could be transformed to a simple mathematical statement of NO wisdom at all. Nevertheless, with extravagant assumption (on the obvious truth) and fascinating explanation (of the ultimate nonsense), the Principle may become a big Law/Theory/Theorem or an incredible Paradox to shake your heart/body.

This is an expository talk of my own adventure in the quantum wonderland (concerning the mathematical problems on direct sums and tensor products – the basic structure in the theory of operator algebras). No working knowledge of quantum information is required in this talk.