

Announcement

Seminar on Deformation Quantization and Geometry

30. 5. 2025 at 14:00 s.t.

Seminarroom SE 31

GANDALF LECHNER (FAU ERLANGEN-NÜRNBERG)

Localization Observables

I will discuss localization observables in a setting of (quasi-)logics which is a common mathematical framework for sigma algebras, causal structures, and real/complex linear projections on a Hilbert space. In particular, I will show how the complex linear case leads to well-known No-Go theorems for covariant causal localization observables, and how the real linear case automatically leads to modular theory of standard subspaces and the idea of modular localization that is fundamental to QFT. This is joint work with Ivan Romualdo.

Invited by Stefan Waldmann