

Felix Finster, Universität Regensburg

Title: Quantum states of causal fermion systems and collapse

The theory of causal fermion systems is an approach to describe fundamental physics. After a short general introduction, I will explain how a causal fermion system at time t gives rise to a distinguished state on the algebra generated by fermionic and bosonic field operators. As an outlook, I will explain the general structure of the resulting quantum dynamics and make a connection to effective collapse theories. I am reporting on joint work with Niky Kamran and Johannes Kleiner.