

Title: Feynmann Propagator in Spin Foam Quantum Gravity: Causality Without Time

Date: Oct 30, 2004 02:00 PM

URL: <http://pirsa.org/04100036>

Abstract:

Orientation as Causality

- ◆ In Spin Foam models **spacetime is a combinatorial 2-complex**, with additional algebraic data encoding extra information (geometry, matter,
- ◆ Causality also encoded in combinatorial structure
- ◆ **Causality associated with orientation of 2-complex**
- ◆ **Vertices = events, links + arrows (oriented links) = causal relations**; oriented graph \sim causal set

