

Title: Discussion Session 1

Speakers:

Collection: Indefinite Causal Structure

Date: December 10, 2019 - 4:00 PM

URL: <http://pirsa.org/19120031>

Operational, Ontology, QFT, QF, GR, SR
causality, (Q)Ref. frames inference.

what - are the problems with ICS

↳ operationalism is -

↳ be more critical
divⁿ

- is the ontological status of CS.

- what experiments to show that gravity is Quantum.

should → we explore a large space of theories from Classical, Quantum.

more → physical realizations of ICS → known new physics -
↳ effort on classical quantum theories.

↳ exploration of Q. entanglement in curved space time.

Why is QFT the way to go? Because of SR.

time just
a measure of
change

is there a non-trivial causal inference problem.
are there a good Q theory that treats gravity classically.
QFT frames relevant to problems of QG.

how a QFT & GR already exist
or QFT related to LCS

can we formulate the notion of causation without time? Yes.
with global unitarity.