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【566】Cause and effect relations in interventional models

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While a lot of effort has been made to understand the physical cause and effect relations, a general characterization of the ones that are, at least in principle, admissible by a logically consistent theory is still missing. With this poster I present the main ideas and formalisms that are used in this research direction, focusing both on the quantum and the classical case. The presentation is especially focusing on the cyclic causal structures, which are of the most interest due to the corresponding interpretation as “time traveling” scenarios and the possible physical understanding through the theory of general relativity.

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