

## A quantification of the causal effect for arbitrary finite dimensional quantum systems

To infer causes from the effects of a given event constitutes a key ingredient of science and it is well-known that since the very beginning of the study of the nature many efforts have been devoted to this direction trying to find explanations for the observed world. Subtleties appear in such a field when moving from classical physics to quantum mechanics. In the talk, I will show my results about causation between finite dimensional quantum systems, showing under which conditions these systems are influenced and I introduce a quantification of their causal influence, showing its properties.