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NITheP Webinar Series

Thursday, 27 August 2020, 14h00

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Local and non-local master equations

Abstract: Different types of master equations, though in principle equivalent, reveal different information about the underlying dynamics. Accordingly, the capability to obtain one of them from the other can be highly beneficial. Here, I present a newly introduced link between the local and the non-local description of commutative quantum evolutions, based on the damping-basis representation. On examples, I show the consequences of this finding for some properties of the exact and approximated dynamics.

Bio: After moving to Germany from Poland, study of physics and PhD in open quantum systems at TU Dresden, under supervision of Prof. Walter Strunz. Now as an Alexander von Humboldt Fellow at University of Milan, working with Prof. Vacchini and Dr Smirne.

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