

DISCRETE '08: Symposium on Prospects in the Physics of Discrete Symmetries



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Canonical Commutation Relations and Adiabatic Parasites

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The central theme of the talk is the study of a quantum particle, constrained to move in the neighborhood of a space curve, and its backreaction on the curve, viewed, in its turn, as a quantum system. In particular, the effect of this symbiosis on the canonical commutation relations of the 1+1 effective quantum field theory of the curve is studied, and potential implications are outlined.

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