

SEMINARIO

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“Self adjoint extensions and heat kernel in quantum fields over bounded domains”

Abstract: In the last decade the experimental progress done at the nanoscale physics has allowed to build in a lab metamaterials whose nanoscale physical properties do not depend on the atomic structure of the material (graphene, topological insulators, nano-ribbons, and other bidimensional systems). From a mathematical/theoretical point of view it is now necessary to develop rigorous formalism to study quantum physics and systems that are confined to live in compact domains with boundaries. In this talk I would like to present a review of results on quantum field theory defined over bounded domains.

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