

VII Leopoldo García-Colín Mexican Meeting on Mathematical and Experimental Physics



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QUELZATSIN CARRASCO: Phenomenological model for the incoherent addition of two quantum resistors connected in series

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Ever since the creation of the integrated circuit in the late 50's and the emergence of nanotechnology, the number of developed nanostructures has been increasing, so much so that at present, nanostructures are viewed as ideal systems for the study of electronic transport; however, a mathematical model that introduces and studies decoherence phenomena into an arbitrary mesoscopic system has not yet been created. This work focuses on studying the behavior of the total conductance of a system through the creation of a phenomenological model that allows the introduction of a local inelastic process in the transmission between two quantum resistors connected in series.

Session Classification: SHORT TALKS