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Outgoing Cuntz Scattering System for a Coisometric Lifting and Transfer Function

Kalpesh J. Haria

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We study a coisometry that intertwines Popescu's presentations of minimal isometric dilations of a given operator tuple and of a coisometric lifting of the tuple. Using this we develop an outgoing Cuntz scattering system which gives rise to an input-output formalism. A transfer function is introduced for the system. We also compare the transfer function and the characteristic function for the associated lifting.

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