

On matrix representations of operators that are isometric with respect to generalized covariances

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We would like to generalize, from the dilation theory point of view, the study of operators that are isometric with respect to the first-order covariance. We highlight the conditions under which an operator admits a dilation satisfying $S^* \Delta_S S = \Delta_S$, where Δ_S is a generalized covariance for S .

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