



Minisymposium 6 - Positive definite functions and applications

Continuations of Hermitian indefinite functions and operator models for corresponding canonical systems

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There is a close connection between the continuation problem of positive definite functions from a finite interval to the real axis and the inverse spectral problem for certain differential equations. In this talk this connection is discussed for a simple example of a function that has a negative square if the interval is large enough. In this case a singularity appears for the differential equation. Operator models in a Pontryagin space are presented for this situation.