

Self-adjoint analytic operator functions: Local spectral function and inner linearization

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joint work with A. Markus and V. Matsaev

A selfadjoint analytic operator function $A(z)$, which satisfies the Virozub-Matsaev condition on some real interval Δ_0 and is boundedly invertible in the endpoints of Δ_0 , has a local spectral function on Δ_0 . As a consequence, a linearization for $A(z)$ that corresponds to Δ_0 , can be constructed.