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

H. Langer
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 $\Delta_0$ and is boundedly invertible in the endpoints of $\Delta_0$, has a local spectral function on $\Delta_0$. As a consequence, a linearization for $A(z)$ that corresponds to $\Delta_0$, can be constructed.