# On Trace Formula and Birman-Krein Formula for Pairs of Extensions

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joint work with J. Behrndt and M.M Malamud

For scattering systems consisting of a (family of) maximal dissipative extension(s) and a selfadjoint extension of a symmetric operator with finite deficiency indices, the spectral shift function is expressed in terms of the abstract Titchmarsh-Weyl function. A variant of the Birman-Krein formula is proved.