On the stability of inverse resonance problems

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Inverse spectral and scattering problems are a classical subject in mathematical physics. In this talk a particular variant, the inverse resonance problem is presented. Since, in practical settings, one can typically not expect to obtain all the necessary data and since, in any case, recovery algorithms cannot make use of all data even if they were available, we investigate which information may be contained from finite noisy data.

Results were obtained jointly with M. Brown, I. Knowles, M. Marletta, S. Naboko and R. Shterenberg.