Direct and inverse scattering problems for multi-channel, with different decay at infinity

Isaac Alvarez Romero (NTNU Trondheim)

Abstract. We study direct and inverse problem for a system of interacting particles. This system consists of a finite number of semi-infinite threads connected to a central part which consists of a finite number of particles. We assumed that the threads are homogeneous close to infinity, however the homogeneity varies from one thread to another. We show how one can determine the characteristics of the threads from the scattering data.

This is a joint work with Yu.I. Lybarskii and V.A. Marchenko.

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