Mutli-waves Inverse Problems

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A major problem in solving mutli-waves inverse problems is the presence of critical points where the collected data vanishes. The set of these critical points depends on the choice of the boundary conditions, and can be directly determined from the data itself. In most existing stability results, the boundary conditions are assumed to be close to a set of CGO solutions where the critical points are controlled. In this talk I will present new stability estimates for some mutli-waves inverse problems without assumption on the boundary conditions.