Bernoullis Tafelrunde

Graduate Student Seminar

Monday, 17 April 2023, 12:15-13:00
Seminarraum 05.002, Spiegelgasse 5

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Introduction to Full Waveform Inversion

Abstract

The inverse scattering problem is the task of recovering the interior of an object, called the medium, based on how waves are scattered when passing through the medium, and appears frequently in different disciplines. One approach for solving this problem is full waveform inversion (FWI), an algorithm originally developed in geophysics for imaging the interior of the earth using scattering data generated by seismic waves. In this talk, I will use a one-dimensional example to explain this algorithm.