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DK Seminar

Mar 22, 2017, 14:15 - 15:45
Vienna University of Technology,
Freihaus, green area, 4th floor, 101C

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An universal back-projection algorithm for photoacoustic tomography with considering attenuation

In this talk we will mainly present a novel reconstruction method for photoacoustic imaging taking into account attenuation. It is a temporal universal back-projection formula and works exactly for quadratic measurement surfaces or curves. First we will give an overview of some background and the classical reconstruction methods, then introduce this novel formula in constant attenuation medium and general attenuation medium. In the third part, we will show some numerical experiments in 2D.

This is based on joint work with Otmar Scherzer.