

# Direct reconstruction of discontinuous conductivities using Beltrami equation

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## **Abstract**

The uniqueness theorem for general conductivities by Astala and Pivrinta [Ann.Math.163(2006)] has a constructive proof. A practical EIT algorithm based on this theory is discussed. Complex geometrical optics solutions for the Beltrami equation play a key role in the proof. Numerical computation of those solutions is demonstrated.