

1046-35-1408

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and **Alexandre Timonov**, Division of Mathematics and Computer Science, Spartanburg, SC.  
*Current Density based Electrical Impedance Tomography.*

This talk introduces a new hybrid method for conductivity imaging. The method uses one measurement of the magnitude of the current density field. The problem can be reduced to a non-smooth variational question. (Received September 15, 2008)