APPLIED MATHEMATICS COLLOQUIUM

Integrability, Medical Imaging, and Boundary Value Problems

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Abstract:

Ideas and techniques of Integrability have had a significant impact in several areas of science and engineering. In this lecture, two such applications will be reviewed: (a) an analytical approach to certain important medical imaging techniques; (b) a unified approach to analyzing boundary value problems. The latter approach unifies the fundamental contribution to the analytical solution of PDEs of Fourier, Cauchy and Green, and also presents a non-linearization of some of these results.

Monday November 16th 2009 4:30 PM Building 4, Room 370

Refreshments are available in Building 2, Room 290 (Math Common Room) between 3:30 – 4:30 PM

Applied Math Colloquium: <u>http://math.mit.edu/amc/fall09</u> Math Department: <u>http://www-math.mit.edu</u> To sign up for Applied Mathematics Colloquium announcements, please contact <u>avisha@math.mit.edu</u>



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