Numerical Analysis and Scientific Computing Seminar

Computational and Statistical Methods for Positron Emission Tomography

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Abstract: I'll spend a fair amount of time discussing the mathematical models behind the CT (computed tomography) and PET (positron emission tomography) imaging modalities, with the goal of bringing the audience along for as much of 50 minutes as possible. At some point, however, I'll dive into my own research focusing on the PET imaging problem, which includes iterative methods, as well as the choice of the regularization function and parameter.

Anyone curious about how these standard medical imaging techniques work is encouraged to attend.

Wednesday, November 11, 2009, 12:45 pm

Mathematics and Science Center: W306

Mathematics and Computer Science
Emory University