

Cal Poly Pomona Mathematics and Statistics
Department Colloquium

**Gridless Gridded Techniques and Their
Applications to Discrete PDEs**

By

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Abstract: In recent years, gridless solution techniques based on radial basis functions have gained momentum in the numerical PDE community. More recently, these techniques have been used to extend the capabilities of adaptive PDE solvers. In this talk, I will give an overview of the canonical discrete time evolution problem, its connection to wavelet based grid refinement, Kd-trees and RBFs methods; some preliminary results will be shown, via movie, along the way.

Thursday, May 31st, 2007, 12:05 – 12:50 p.m. in 8-156

Refreshments served at 12 noon.