

Distinguished Lecture Series/ Colloquium

The topologies of random real algebraic hypersurfaces

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Abstract: The topology of a hyper-surface in $\mathbb{P}^n(\mathbb{R})$ of high degree can be very complicated. However if we choose the surface at random there is a universal law. Little is known about this law and it appears to be dramatically different for $n=2$ and $n>2$. There is a similar theory for zero sets of monochromatic waves which model nodal sets. Joint work with Y.Canzani and I.Wigman .

This is Lecture 3 of the series. Note the lecture location. The lecture will be followed by departmental tea.

Friday, March 1 at 3:00 PM in BSB 250