ASYMPTOTIC GEOMETRY AND TOPOLOGY OF RANDOM REAL ALGEBRAIC HYPERSURFACES

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By random real algebraic hypersurface in $\mathbb{R}{P}^m$ we mean the zero variety of a random homogenous polynomial in $m + 1$ variables. The main theme of the talk is the statistics of the geometric (eg. volume) and topological (eg. number of connected components) features of random real algebraic hypersurfaces in $\mathbb{R}{P}^m$. I will report on some recent results and their generalizations.

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