
ATHENS *Pr*OBABILITY COLLOQUIUM

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Math Dept, University of Athens

**“Disordered Systems: A crossroad of stochastic,
combinatorial structures and beyond”**

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Abstract: What are the shapes that one observes when ink spreads over paper and what is the roughness around these macroscopic shapes? How do the magnetic properties of a dirty magnet compare to an ideal one?

Questions of this type arise when a statistical mechanics model interacts with independent randomness (disorder).

Answers to such questions require combinations of a variety of techniques and ideas that go beyond those of classical probability.

In this talk we will look at some prime examples of disordered systems, such as those described by the KPZ equation and universality class, and review some of the methods used.

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