

Spark Talk

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Critical Problems in Statistical Physics and PDEs

Natural systems can be classified by scaling into subcritical, critical, and supercritical ones. This philosophy applies to both deterministic and random systems. In general, subcritical problems are simpler, and critical ones may have very different behavior. In this lecture I will discuss recent progress on critical problems in different contexts including particle systems, wave turbulence, random data problems, and SPDE.