

Title: 'Topics in Probability'

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Abstract: I discussed several problems in probability where some sort of scaling limit is taken. The first problem was about 'interacting particle systems' and passage from micro to macro settings with respect to mass, tracer particle, and interface evolutions. The second problem was about approximating geodesics by those in approximating random graphs. The third problem was about limits of empirical distributions of time-inhomogeneous MC's and a stick-breaking process.