1102-57-162   **Nathan M Dunfield***, Dept of Mathematics, 1409 W. Green Street, Urbana, IL 61801. *Random knots: their properties and algorithmic challenges.* Preliminary report.

I will discuss various models of random knots in S^3, surveying what is known about them theoretically and what is conjectured about them experimentally. In particular, I will discuss experiments that probe the practical/average case complexity of questions like computing the genus of a knot. (Received July 28, 2014)