

Local time coalescing Brownian motions.

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We consider a system of Brownian motions, any two of which coalesce at rate 1 with respect to their intersection local time. We show that this system “comes down from infinity”: the number of particles is finite at any positive time, even if there are infinitely many particles at time 0. We also discuss the hydro-dynamic limit of this system. Work in progress with Richard Liang and Ed Perkins.