

- Program Associate, Office 315.
- Advisors: Eyal Lubetzky and Ofer Zeitouni.

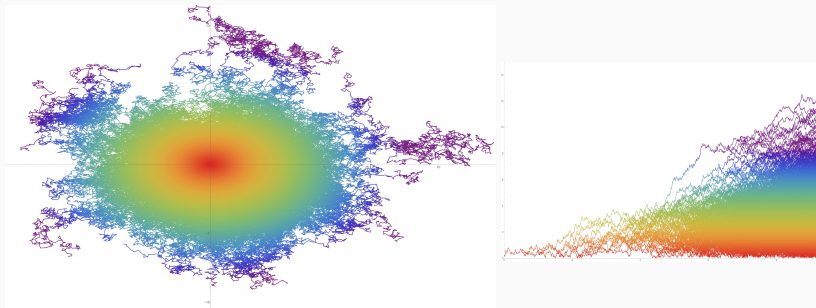


Fig: 2D BBM (left) and its modulus as a function of time (right)

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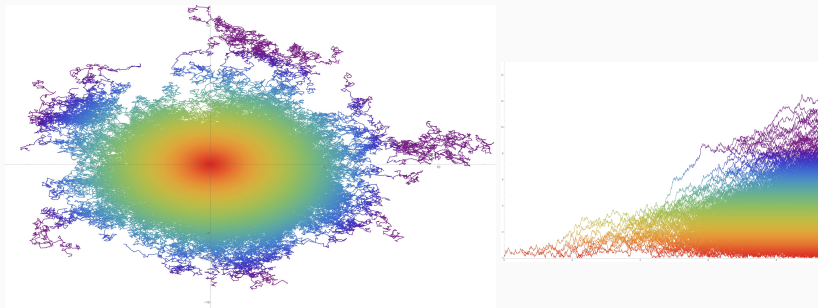


Fig: 2D BBM (left) and its modulus as a function of time (right)

- Let M_t denote the maximum modulus of a d -dimensional BBM, for $d \geq 1$. Then

$$\lim_{t \rightarrow \infty} \mathbb{P} \left(M_t - \left(\sqrt{2}t + \frac{d-4}{2\sqrt{2}} \log t \right) \leq y \right) = \text{randomly shifted Gumbel}$$

- $d = 1$ case: Bramson ('83) | $d \geq 2$: K., Lubetzky, Zeitouni (2021)

Coming soon... the limiting extremal point process of d -dim. BBM (joint with J. Berestycki, E. Lubetzky, B. Mallein, and O. Zeitouni)

$d = 1$ case: Aidekon-Berestycki-Brunet-Shi and Arguin-Bovier-Kistler (2011)

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Artistic rendition:



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Artistic rendition:



Information we needed:

- tight control on the paths of the leading particles
- genealogical information of the leaders
- geometrical estimates, connections between geometry and genealogy