

## Statistics and Data Science Seminar

### *One-point function and natural parametrization for loop-erased random walk in three dimensions*

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**Abstract:** We consider loop-erased random walk (LERW) in three dimensions and give an asymptotic estimate on the one-point function for LERW and the non- intersection probability of LERW and simple random walk in three dimensions. Then we show that 3D LERW converges to its scaling limit in natural parametrization. This is a joint work in progress with Daisuke Shiraishi (Kyoto).

Wednesday, October 10 at 4:00 PM in 636 SEO