

Bachelorarbeiten Sommer Semester 2026 - Ferrari

Here are some possible topics.

1. TASEP hydrodynamics using microscopic characteristics [Taken].
<https://arxiv.org/abs/1601.05346>
2. Cutoff on trees is rare [Taken].
<https://arxiv.org/abs/2012.11484>
3. The tail of the length of an excursion in a trap of random size [Taken].
<https://arxiv.org/abs/2111.03028>
4. Collision probabilities in the rarefaction fan of ASEP [Taken].
<https://arxiv.org/abs/0804.1770>
5. Limit profile for ASEP with one open boundary.
<https://arxiv.org/abs/2307.14941>, some inputs from <https://arxiv.org/abs/2012.14924>.
6. KPZ statistics of second class particles in ASEP via mixing.
<https://arxiv.org/pdf/1911.09426>
7. Gibbs Random Graphs [Taken].
<https://arxiv.org/abs/1002.0610>
8. Limits of Multilevel TASEP and similar processes.
<https://arxiv.org/pdf/1206.3817>
9. Interacting particle systems at the edge of multilevel Dyson Brownian motions.
[It requires Stochastic Analysis Background].
<https://arxiv.org/pdf/1409.2016>
10. Dyson's Brownian motion, intertwining and interlacing
[It requires Stochastic Analysis Background].
<https://arxiv.org/abs/math/0509720>

For more informations, contact me per email.