Courant Institute of Mathematical Sciences  
New York University  
Probability and Mathematical Physics Seminar  

presents  

Scaling limit for the space-time covariance of the stationary TASEP  

by  

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Room 1013 WWH  
251 Mercer Street  
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Abstract  

We consider the stationary totally asymmetric simple exclusion process (TASEP), with Bernoulli $\rho$ measure as initial condition. We analyze the 2-point function and obtain, for large time $t$, its the limiting expression. It is given in term of generalization of the GUE Tracy-Widom distribution of random matrices.