## Transition Functions of a Fleming-Viot Process and a Random Time Change

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KEY WORDS: Gamma process, Dirichlet process, measure-valued branching diffusion with immigration, Fleming-Viot process, random time change.

MATHEMATICAL SUBJECT CLASSIFICATION: Primary: 60F10; Secondary: 92D10.

**Abstract**: In this talk, a random time change is discussed. The transition function of a Fleming-Viot process is derived from the transition function of a measure-valued branching diffusion with immigration through the time change. This is a joint work with Fang Xu.

## References

- S.N. Ethier and R.C. Griffiths (1993). The transition function of a Fleming–Viot process. Ann. Probab. 21, No. 3, 1571–1590
- [2] S. Feng and F. Xu (2012). Gamma-Dirichlet structure and two classes of measure-valued processes. http://arxiv.org/abs/1112.4557
- [3] Z.H. Li. Measure-Valued Branching Markov processes. Springer, Heidelberg, 2010.