

DY 23: Invited Talk

Time: Tuesday 9:30–10:00

Location: ZEU 118

Invited Talk

DY 23.1 Tue 9:30 ZEU 118

Collective dynamics of cell-fate decision in the early embryo

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Mammalian organisms exhibit an astonishing ability to self-organize in a highly regulated manner during development from a fertilized egg,

even in the presence of perturbations that can affect the early embryo. In this talk I will describe our recent work combining theoretical modeling and experiments on mouse embryos, which has led us to establish a minimal model of cell-fate decision that relies on cell-cell communication, making this problem one of collective decision making with robust dynamics.