Timo Hirscher (Stockholms universitet) The Schelling model on \mathbb{Z}

We define a version of the Schelling model on \mathbb{Z} , in which every site is occupied by an agent (and there are two types of agents). An agent prefers to be surrounded by others that share its own type, and may choose to move if this is not the case. It then sends a request to an agent of opposite type chosen according to some given moving distribution and, if the move is beneficial for both agents, they swap. We show that certain choices in the dynamics are crucial for the properties of the model: It exhibits different asymptotic behavior depending on whether the moving distribution has bounded or unbounded support. Furthermore, the behavior changes if the agents are lazy in the sense that they only swap location if this strictly improves their situation. This is joint work with Mia Deijfen.