

1154-92-2629

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Juvenile locusts aggregate in swarms that march and forage through fields. These groups display collective behavior by forming coherent structures such as a distinct traveling pulse. As the swarm eats its way across a field it forms a clear line perpendicular to the direction of motion. We study this swarming behavior from two perspectives, an individual-based (microscopic) and a collective (macroscopic). Our agent-based model (ABM) encodes the behavior of individuals while our PDE model describes the collective behavior. In this talk we discuss how resource-dependent foraging drives the formation of the traveling swarm of locusts. (Received September 17, 2019)