学术报告

Emergent behaviors of the Justh-Krishnaprasad model with uncertain communications

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【摘 要】We study stochastic alignment of the Justh-Krishnaprasad(J-K) model under some types of noise. We present sufficient conditions leading to the nematic alignment of velocities in terms of the system parameters and initial data. For the general many-body system with a corresponding condition, we showed the accumulation of heading angles modulo and the stochastic stability of nematic alignment under the assumption of the constant communication weight, which suggests a strong evidence for the nematic alignment. We present several numerical simulations and compare them with analytical results.

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时间：2023.3.6　16：00-17：00

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