

MIMS現象数理カフェセミナー

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Investigating Essential Factors for Cooperative Transport in Ants

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Abstract: Ants, small insects with lengths ranging from a few millimeters to several centimeters, are known for their collective behavior that surpasses human capabilities. The presenter has focused on the study of cooperative transport, a group behavior where multiple individuals carry a single object (food). Cooperative transport is a highly advanced and complex behavior among ant group activities. While many studies have aimed to clarify its mechanisms, little research has been conducted on another significant question: why the trait of cooperative transport has developed. Therefore, the presenter employed mathematical models and interspecies comparative experiments to identify the essential elements for the development of cooperative transport in ant species.



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