

# Mathematics and Physics Seminar Series



# Announcing

A Seminar Presentation

on Thursday

March 14, 2019

at 3.30 pm in

North Hall 102

at The University of New Haven

## Segregation in granular materials

— **Dr. Dan Liu**

Department of Physics  
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**Abstract:** The method of quasi-particles, which is based on a generalized Pauli exclusion principle, can analytically solve systems with neighbor interactions. We apply the method to one dimensional jamming disk models to explore how the systems change along external effects such as vibration, gravity and rotation. Our current research progress on jamming models with different size disks is used to explain segregation in granular mixture flows.

### Further Information

For further information, please contact Dr. Yasanthi Kottegoda at the Department of Mathematics and Physics, Office: Maxcy 315, 203-932-1206, [YKottegoda@newhaven.edu](mailto:YKottegoda@newhaven.edu).