

# Vibration Induced Particle Transport

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## Abstract

Tapping out controlled amount of sugar or salt from a bottle in the absence of a spoon is a common practice (with occasional disastrous results). This process of vibration induced transport, which appears to get better with experience, is however fairly complex. It has potential applications in manipulation/transport of micro and nano-sized particles. In this talk, I will introduce some theoretical and experimental work we have recently initiated to understand vibration induced transport. We are currently working on a single particle model through simulation and experiments.