

Abstract Submitted  
for the OSS19 Meeting of  
The American Physical Society

**Unmagnetized Rotating Yukawa Ring in a Dusty Plasma** MATT SIBILA, WILLIAM THEISEN, Ohio Northern University — A strongly coupled unmagnetized 1-D dust ring interacting through a Yukawa potential is created experimentally. Radial confinement is provided by a groove with a center pedestal. The dust particles rotate within the ring shaped potential well even though drag forces are present and there is no readily identifiable driving force. The rotation rate of the ring is measured and possible driving forces for rotation are examined.

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Date submitted: 13 Mar 2019

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