

Abstract Submitted  
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**Radial band formation in binary mixtures of flowing granular media in a tilted tank**<sup>1</sup> WILLIAM HOURIGAN<sup>2</sup>, THOMAS WARD<sup>3</sup>, UCLA

— The formation of radial band of glass beads in a variable-sized grain mixture in a tilted rotating tank is examined experimentally for angles between  $15^\circ$  and  $65^\circ$  from the horizon and for rotation speeds  $\leq 50$  RPM. The mixture is composed of glass beads of two sizes; which have diameters between  $100 - 600\mu\text{m}$ . Images are recorded of band formation for differing concentrations. We examine the width of the band and the distance from the bottom surface of the tank as a function of the concentration, tilt angle and speed.

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