How the Dust Acoustic Wave Initiates the Taylor Instability in the Vertical Plane

KATHERINE PACHA, University of Iowa — How the dust acoustic wave creates the Taylor instability in a laboratory dusty plasma are presented. The Taylor Instability was triggered by the dust acoustic wave creating an instability along the vertical interface of the cloud which allowed the low-density dust fluid into the high-density dust fluid. Reflection of the dust acoustic wave aides in its strength.