

Abstract Submitted
for the OSS13 Meeting of
The American Physical Society

Preliminary investigation of a plasma sheath using dust THOMAS
E. STEINBERGER, W.L. THEISEN, T.E. SHERIDAN, Ohio Northern University
— The plasma sheath is the boundary layer that separates a plasma from a material
surface. Dust particles in a plasma typically acquire a negative charge and float at
the edge of the plasma sheath. The charge on dust in a two-particle cluster can be
found from normal mode analysis. The electric field and field gradient can then be
determined at the particles' positions. Preliminary results from the Dusty O.N.U.
experiment (D.ONU.T) will be presented.

Terrence Sheridan
Ohio Northern University

Date submitted: 01 Mar 2013

Electronic form version 1.4