

Position of heavy ions populations relative to Venusian boundary layers

M Grande (1), I Whittaker (1), G Guymer (1), S Barabash (2), E Penou (3), The ASPERA Team

(1) University of Wales Aberystwyth, UK, (2) IRF Kiruna, Sweden, (3) CNRS Toulouse France

We will investigate the position and angular distribution of oxygen ions in the Venusian magnetosphere and ionosphere. These exhibit a complex pattern, and penetration depths from solar wind oxygen often greatly exceed the gyroradius. We will present an analysis of the populations of heavy ions ordered with particular respect to the boundary layers. The data is being taken from the ASPERA-4 IMA instrument onboard Venus Express and being analysed using the CL software.