



## **Ion Escape from Mars - Mars Express Data in the Light of MAVEN Observations**

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Measuring the escape of ions from Mars has been one of the main targets of the ASPERA-3 experiment on Mars Express since orbit insertion in 2004. But the Mars Express spacecraft is not optimized for this measurement since it lacks a magnetometer and a Langmuir probe to observe magnetic field and total plasma densities. Nevertheless over the last 10 years several studies have been published attempting to determine the total escape flux and its variation with external parameters from ASPERA-3 observations. Since October 2014 the MAVEN spacecraft is in orbit around Mars with a much larger instrumental suite optimized for measuring the ion outflow. In this paper we reassess observations made by the MEX ASPERA-3 and MARSIS experiments in the light of recently published MAVEN observations.