



Envisaged in-situ plasma observations on comet 67P/Churyumov-Gerasimenko

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In autumn 2014, ESA's corner stone mission Rosetta will orbit comet 67P/Churyumov-Gerasimenko and deliver the cometary lander Philae onto the comet surface. The instrument ROMAP (Rosetta Lander Magnetometer and Plasma Monitor) onboard Philae consists of a fluxgate magnetometer, a plasma ion and an electron sensor. ROMAP will measure for the first time the magnetic field and the bulk plasma density, velocity and temperature on a cometary surface. We will discuss the determination of Philae surface attitude as derived from the solar wind velocity vector as well as the dawn to dusk plasma observations and their relevance for the nucleus regolith and dust grain charging.