



Plasma Filamentation at Comet 67P/Churyumov-Gerasimenko

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During the two year mission, Rosetta has collected a vast amount of data from the plasma environment around comet 67P/Churyumov-Gerasimenko. The neutral density around the nucleus is sufficiently high to cool the electrons only close to the nucleus. Rosetta is during the mission mostly outside of this electron cooling region. The Langmuir probe instrument (LAP) however does measure intermittent cold plasma signatures that show up as pulses in the probe current. These signatures correspond well to filamentation of the plasma predicted by hybrid simulations. We present statistics and data showing properties and distributions of these (filamentation) structures around the comet.