



## **The flux and size distribution of dust particles ejected from 67P/C-G before and after perihelion measured by COSIMA/Rosetta.**

Sihane Merouane (1), Martin Hilchenbach (1), Yves Langevin (2), Oliver Stenzel (1), Henning Fischer (1), Klaus Hornung (3), Johan Silèn (4), Nicolas Altobelli (5), Nicolas Ligier (2), John Paquette (1), Jouni Rynö (4), Rita Schulz (6), and Jochen Kissel (1)

(1) MPS, Göttingen, Germany (merouane@mps.mpg.de), (2) Institut d'Astrophysique Spatiale, CNRS/Univ. Paris-Sud, Orsay, France, (3) Universität der Bundeswehr München, LRT-7, Neubiberg, Germany, (4) Finnish Meteorological Institute, Helsinki, Finland, (5) Solar System Science Operation Division, ESA-ESAC, Madrid, Spain, (6) European Space Agency, Noordwijk, The Netherlands

The COmetary Secondary Ion Mass Analyzer (COSIMA) instrument on-board the Rosetta spacecraft collects dust particles in the coma of 67P/Churyumov-Gerasimenko at low velocity on metallic targets. The internal camera of the instrument, the COSISCOPE, allows the imaging of the collected particles with a resolution of  $14 \mu\text{m} \times 14 \mu\text{m}$ . A set of three targets was exposed to the cometary dust flux and imaged almost every day from June 2015 to October 2015 and a second set from October 2015, still in use in January 2016. The flux of the dust particles and their size distribution before and after perihelion will be compared in order to investigate possible changes in the dust ejection behavior after that the comet passed perihelion.