

Vincenzo DELLA CORTE

Career:

2000-2005 Research Fellow INAF OAC Naples

2005-2007 Novaetech Private Company founder (Spin -off INAF)

2007-2010 Research Fellow Università degli Studi di Napoli Parthenope

2010-2013 Researcher at Università degli Studi di Napoli Parthenope

2013-2014 Research Fellow at INAF-IAPS Rome

2014-2016 Senior technologist TD at INAF-IAPS Rome

2016-2018 Researcher RTD-B at Università degli Studi di Napoli Parthenope

2018-present Senior technologist at INAF-IAPS Rome

EDUCATION

- 1998: Master of Science Degree (Ing.) Mechanical Engineer, Univ. of Padova Italy

Experiences: (Senior Technologist at National Institute of Astrophysics - Institute of Space Astrophysics and Planetology), he has been working for 20 years in the field of aerospace research with particular attention to the development of instrumentation dedicated to the measurement in situ and collection of particulates . He followed the design, construction and the calibration as well as the in flight management; He followed the development and calibration of the measuring subsystems of the GIADA instrument (of which he was Deputy PI), part of the scientific payload of the ESA Rosetta mission. In particular, He participated in the development of the particle impact measurement stage; He was part of the team in the calibrations of the SIMBIO-SYS instrument for the ESA BepiColombo mission as responsible for the calibration of the high resolution channel (HRIC); he is the Technical Manager of the JANUS Instrument (High Resolution Camera) on board the ESA's JUICE mission aimed at studying the Jovian system and in particular the Galileian satellites; is part of the scientific team that follows LICIAcube (Cubesat that is part of the NASA DART mission part of the AIDA initiative, Asteroid Impact Deflection Assessment) as coPI; He is co-PI of the DFP (Dust Field and Particles) instrument part of the scientific payload of the Comet Interceptor mission selected as the next Class-F mission and is responsible for the development of the measurement sensor for dust impacts; It is the PI of the DUSTER instrument, payload for stratospheric balloons, dedicated to the collection of refractory particulates in the high stratosphere, which has successfully carried out 5 different missions.

Publications:

Dust measurements in the coma of comet 67P/Churyumov-Gerasimenko inbound to the Sun
A Rotundi, H Sierks, V Della Corte, M Fulle, PJ Gutierrez, L Lara, et al, Science 347 (6220), aaa3905
GIADA: shining a light on the monitoring of the comet dust production from the nucleus of 67P/Churyumov-Gerasimenko V Della Corte, A Rotundi, M Fulle, E Gruen, P Weissman, R Sordini, et al, Astronomy & Astrophysics 583, A13

The grain impact analyser and dust accumulator (GIADA) experiment for the Rosetta mission: design, performances and first results, L Colangeli, JJ Lopez-Moreno, P Palumbo, J Rodriguez, M Cosi, V. Della Corte et al, Space Science Reviews 128 (1-4), 803-821

67P/CG inner coma dust properties from 2.2 au inbound to 2.0 au outbound to the Sun
V Della Corte, A Rotundi, M Fulle, S Ivanovski, SF Green, FJM Rietmeijer, ..., Monthly Notices of the Royal Astronomical Society 462 (Suppl_1), S210-S219

GIADA: Its status after the Rosetta cruise phase and on-ground activity in support of the encounter with comet 67P/Churyumov-Gerasimenko V Della Corte, A Rotundi, M Accolla, R Sordini, P Palumbo, L Colangeli, ...Journal of Astronomical Instrumentation 3 (01), 1350011

Giada-grain impact analyzer and dust accumulator-onboard rosetta spacecraft: extended calibrations, V Della Corte, R Sordini, M Accolla, M Ferrari, S Ivanovski, A Rotundi, et al. Acta Astronautica 126, 205-214

The JANUS camera onboard JUICE mission for Jupiter system optical imaging, V Della Corte, N Schmitz, M Zusi, JM Castro, M Leese, S Debei, D Magrin, et al. Space Telescopes and Instrumentation 2014: Optical, Infrared, and Millimeter

In situ collection of refractory dust in the upper stratosphere: the DUSTER Facility, V Della Corte, P Palumbo, A Rotundi, S De Angelis, FJM Rietmeijer, et al. Space science reviews 169 (1-4), 159-180

GIADA microbalance measurements on board Rosetta: submicrometer-to micrometer-sized dust particle flux in the coma of comet 67P/Churyumov-Gerasimenko, V Della Corte, A Rotundi, V Zakharov, S Ivanovski, P Palumbo, M Fulle, ... Astronomy & Astrophysics 630, A25