

Curriculum Vitae

Name: Daniele Spadaro

Date and place of birth: omissis

Marital status: omissis

Degrees: BS in Physics, achieved at the University of Catania, Italy, April 1987
PhD in Astronomy, achieved at the University of Florence, Italy, April 1987

Former positions: Astronomer Researcher at Osservatorio Astronomico di Capodimonte, Naples, Italy (from January 1986 to October 1986)
Astronomer Researcher at Osservatorio Astrofisico di Catania, Italy (from November 1986 to April 2003)
Associate Astronomer at INAF-Osservatorio Astrofisico di Catania, Italy (from May 2003 to October 2022)
Senior Researcher (Dirigente di ricerca) at INAF-Osservatorio Astrofisico di Catania, Italy (from November 2022 to October 2023)

Present position: Retired (Associated with Research Assignment – INAF-Osservatorio Astrofisico di Catania)

Experience:

- Co-Investigator of the MUSE experiment: scientific support
- diagnostics of eruptive events
- Co-Investigator of the METIS experiment for Solar Orbiter: coordinator of the Science Team
- definition of METIS scientific objectives
- METIS scientific performance verification
- definition of scientific observing modes of the instrument
- Co-Investigator of the UVCS/SOHO experiment: co-operation in the feasibility study, definition phase and development phase of the instrument
- monitoring of the activities of the Italian factories responsible for the design and construction of some sections of the UVCS
- co-operation in the integration, alignment and calibration activities of the UVCS
- participation in the thermal-vacuum tests of SOHO
- Ground-based observations of the Sun (white light and H α) at the Astrophysical Observatory of Catania, Italy

Scientific tasks:

- 1996-1999: Member of the board of directors of the Astrophysical Observatory of Catania, I
- 2003: External examiner for PhD candidates at DAMTP, University of Cambridge, UK
- 2009-2010: President of the committee for the organization of the Italian network of solar

telescopes

- 2011-2012: Director of the INAF-Osservatorio Astrofisico di Catania, I
- 2014-2018: Member of the national committee for solar system research of INAF (National Institute for Astrophysics), I
- 2018: External examiner for PhD candidates at Czech Academy of Sciences, Prague, CZ
- 2020: Member of the committee for the selection of the Science Director of ISSI, Bern, CH
- 2020-2024: Member of the Scientific Council of INAF, I

Fields of research:

Solar Physics

Coronal structures (loop models, ionization balance, diagnostics of the extended corona).
Study of solar wind source regions.
Properties of CME early propagation and evolution in the solar corona.
Models of transition region dynamics (Doppler shifts in UV spectral lines).
Solar activity (H α and white light observations, data reduction).
Emergence and evolution of active regions.

Stellar Physics

Mass loss from early-type stars (expansion velocity, time variability, close binary systems).
H α observations of O and B supergiants.

Keywords:

Space physics
Heliophysics
Space Weather
Space instrumentation

Publication record:

130 papers in refereed journals with 4700 citations.
35 invited papers at international conferences;
More than 100 contributed papers at international conferences;
PhD thesis.

Total number of citations: 5100.
H-index: 30 (refereed); 32 (total).