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PROF. Guido Masiello

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SCIENTIFIC CURRICULUM VITAE:

**Career Summary**

- Guido Masiello was graduated in Physics from the [University "Federico II"](#), Naples, Italy with a thesis in Astrophysics topic entitled "Phase relation of five minutes Solar Oscillation", supervisor [Prof. C. Marmolino](#).
- In the following academic year (1998/1999) he had a fellowship in Solar Physics at University "Federico II", Naples, entitled "Solar atmosphere dynamics and phase relation", advisor [Prof. L.A. Smaldone](#). In the same year he collaborated with the group of Plasma Physics of the same University lead by Prof. [U. De Angelis](#)
- From April 1999 to April 2001 he had a temporary researcher position at the group of [Applied Spectroscopy](#) of the [University of Basilicata](#), Potenza, Italy lead by [Carmine Serio](#).
- From May 2001 to December 2001 he had a temporary researcher position at [Institute of Applied Mathematics of Italian Council of Research \(IAM/CNR\)](#) in Naples, Italy ([U. Amato](#))
- From December 2001 to July 2006 he worked at [Institute of Methodologies for Environmental Analysis of the Italian National Research Council \(IMAA/CNR\)](#), Potenza, Italy with a permanent position of research technician.
- From July 2006 he had a permanent position as Assistant Professor in Experimental Physics at the faculty of Engineering of the University of Basilicata, Potenza, Italy.
- December 2008, he was selected as a new member of the [IRC \(International Radiation Commission\)](#) for the 2009-2012 term. In December 2012 he was re-selected for the 2013-2016 term.

**Research Activity**

From 1999, Guido Masiello works on Applied Spectroscopy topics. Into details he works on: 1) Validation of Spectroscopy and radiative transfer in the earth atmosphere: 2) Development of physical radiative transfer model for the inversion of the thermodynamic state of the earth atmosphere (temperature and atmospheric molecules concentration). These activities are carried out by analyzing the atmospheric emission spectrum in the infrared region (far and thermal, from 100 to 3.5 micron) at hyperspectral resolution (resolution finer than 0.5 cm<sup>-1</sup>) observed from space and from ground. This research are developed in the framework of several international program, such as IMG, the Fourier Transform Spectrometer of the Japanese Spatial Agency, flew on board of ADEOS satellite from 1996 to 1997, AIRS (Atmospheric Infrared Radiometer Sounder, NASA), flying on board of EOS-Aqua platform, IASI (Infrared Atmospheric Sounding Interferometer, EUMETSAT - EUropean Organization for the exploitation of METeorological SATellite) flying on board of METOP/1 platform, REFIR (Radiation Explorer in the Far Infrared), Italian-British joint venture for the definition and the spatial qualification of a Fourier transform Spectrometer in the far infrared, NAST-I, NASA Fourier Transform Spectrometer flying on board of stratospheric airplanes. These activities was founded in the framework of National and International Research Programs devoted to Physic and Earth Observation Into details: EUMETSAT projects for the Assessment of IASI data (1999-2004); EUMETSAT projects related to the feasibility studies of the IR hyperspectral FTS on board of Meteosat third generation (MTG), (2004 to present); Italian Ministry of Research project devoted at the deployment of Industrial district for the Earth Observations (PON 2002-2004); National Interest Research Program of Italian Ministry of Research devoted to the study of rotational band of water vapour.

Guido Masiello is Visiting Scientist at the **European Organisation for the Exploitation of Meteorological Satellites**, ([EUMETSAT](#)). He has published on his research [more than 50 publications](#) and he acts as referee for European and American Journals of Atmospheric Science.

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PROFESSOR'S OFFICE HOUR:

Monday, from 15 to 17. Potenza, Engineering building, 5<sup>th</sup> Floor room 26.

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