



Università Tor Vergata, Roma

Dipartimento di Informatica,  
Sistemi e Produzione

GeoInformation Doctorate

### Yearly presentations by PhD candidates

DISP meeting room, Ingegneria dell'Informazione ground floor, Via del Politecnico, 1  
8 February 2011, starting at 16:00

Lucia Maria Laurenza

### MARTA, Multi-purpose Atmospheric Radiative Transfer Algorithm

#### ABSTRACT

The **M**ulti-purpose **A**tmospheric **R**adiative **T**ransfer **A**lgorithm (**MARTA**) is one of the tasks of the project CTOTUS, funded by Regione Toscana and coordinated by IFAC-CNR.

The objective is to develop a multi-purpose, flexible code for radiative transfer simulations in the Earth's atmosphere aimed at generating synthetic measurements acquired by remote-sounders using different viewing geometries (nadir, zenith and limb-sounding from ground-based, airborne and satellite payloads), with spectral coverage from the mm-wave to the near-infrared and visible regions.

**Lucia Maria Laurenza** received the Masters degree in Physics from La Sapienza University, Rome. Her thesis work focused on the study of the urban heat island over Rome, using MERIS and AATSR products (ENVISAT mission).

She is currently a second-year PhD candidate at Tor Vergata with a Research Fellowship at IFAC-CNR (Florence). Her research is focused mainly on radiative transfer and forward models.

*You are cordially invited to attend.*