

# Lessons on *Accretion onto compact objects and its role in shaping galaxies*

(organized by the Physics and Astronomy Department and INAF IASFBO)

**April, 8<sup>th</sup>-12<sup>th</sup> 2013**

## **Monday, April 8<sup>th</sup> (IASFBO, Seminar room, II floor)**

13:30: Welcome

- 14-16: **A. Merloni:** *Observational evidence of Supermassive Black Holes*  
*AGN surveys and Population synthesis models for AGN evolution*
- 16-18: **C. Done:** *Black holes in Einstein's general relativity*  
*Observational evidence for a last stable orbit - disc spectra*

## **Tuesday, April 9<sup>th</sup> (Aula 1, Physics and Astronomy Department)**

- 9-11: **C. Done:** *Compton scattering*  
*X-ray absorption and reflection*
- 11-13: **A. Merloni:** *The evolution of SMBH mass function and spin distributions*  
*The first black holes*

## **Wednesday, April 10<sup>th</sup> (IASFBO, Seminar room)**

- 13-15: **C. Done:** *Accretion flow models for the spectra and variability*
- 15-16: **A. Merloni:** **The Science with the eROSITA All-Sky surveys: an outlook** (seminar)

## **Thursday, April 11<sup>th</sup> (Seminar room, Physics and Astronomy Department)**

- 14-15: **C. Done:** **Black hole accretion flows** (seminar)
- 15-17: **A. Merloni:** *The fundamental plane of active black holes*  
*Accretion in a cosmological context: AGN feedback models*  
*AGN-galaxy co-evolution: theoretical issues and observational evidences*

## **Friday, April 12<sup>th</sup> (Seminar room, Physics and Astronomy Department)**

- 9-11: **C. Done:** *Role of the jet*  
*Issues and controversy!*
- 11-13: **A. Merloni:** *The missing pieces of the "puzzle" and the role of AGN/galaxy surveys*  
*Shedding light onto AGN/galaxy evolution issues with next-generation of multi-wavelength facilities*