

# Particle Acceleration and Transport: from the Sun to Extragalactic Sources

12-16 November 2018

Università della Calabria- University Club, Rende, Italy

## Main Topics:

- Observations of energetic particles
- Properties of cosmic ray transport and acceleration
- Shock acceleration: problems and advances
- Magnetic reconnection, including the relativistic regimes
- Magnetic turbulence in astrophysical plasmas
- Models and simulations of particle transport and acceleration

Credit: X-ray: NASA/CXC/SAO; Optical: NASA/STScI; Infrared: NASA/JPL/Caltech; Radio: NSF/NRAO/VLA; Ultraviolet: ESA/XMM-Newton

## Scientific Organizing Committee:

- Silvia Perri (*Chair*, Università della Calabria, Rende, Italy)
- Elena Amato (*co-Chair*, INAF-Oss. Astrof. di Arcetri, Italy)
- Gianfranco Brunetti (IRA-INAF, Bologna, Italy)
- Andrei Bykov (Ioffe Institute, St. Petersburg, Russia)
- Silvia Dalla (University of Central Lancashire, Preston, UK)
- Horst Fichtner (Ruhr-Universität Bochum, Germany)
- Natasha Jeffrey (University of Glasgow, UK)
- William H. Matthaeus (University of Delaware, USA)
- Reinout J. van Weeren (Leiden University, The Netherlands)
- Gaetano Zimbardo (Università della Calabria, Rende, Italy)

## LOC:

Silvia Perri  
Gianfranco Brunetti (Unical)  
Filomena Catapano  
Federica Chiappetta  
Antonella Greco  
Fabio Lepreti  
Francesco Malara  
Giusy Nigro  
Francesco Pecora  
Oreste Pezzi  
Leonardo Primavera  
Sandra Savaglio  
Luca Sorriso-Valvo  
Sara Stabile  
Francesco Valentini  
Pierluigi Veltri  
Gaetano Zimbardo

<http://astroplasmas.unical.it/workshop2018/index.php?link=0#sottotitolo>