

Between Opava and Rome: My HEA Study Experience at INAF

Mgr. Ondřej Chlopčík

Master's programme - Observational High Energy Astrophysics

- relativistic physics, astrophysics and astroparticle physics with the phenomenology of physical processes, with strong emphasis on observational aspects
- goal is also to prepare students for cooperation in international research teams
- requirement is to complete study stays and to do research internships at cooperating foreign institutions (INAF, ISSI)



**SILESIAN
UNIVERSITY**
INSTITUTE OF PHYSICS
IN OPAVA

Study stay in Italy

- INAF - Osservatorio Astronomico di Roma
- Two study stays, each time for 14 days



Learning at INAF with Prof. Luigi Stella



- Daily lectures in the INAF library on HEA topics as (black holes, neutron stars, magnetars and pulsars)
- Student presentations on our own bachelor's and master's research topics
- Second week: personalised lectures based on each student's project (for me: hybrid and strange neutron stars and gravitational waves)

During our stay

- **INFN** - Istituto Nazionale di Fisica Nucleare
- Guided tour of experimental halls and detectors



What I took from the stay

- Unique opportunity to gain valuable experience abroad during my studies
- Broadened cultural horizons and everyday life experience in Italy
- New contacts with local academics and students – potential for future collaboration
- Exposure to a different Italian teaching and research style, inspiring new study methods
- Motivating atmosphere of the historic INAF institute, encouraging learning and research

Thank you for your attention