PHYS-708

High energy and space astrophysics (UNIGe)

Neronov Andrii

Cursus	Sem.	Type
Physics		Obl.

Language of teaching	English
Credits	4
Session	
Exam	Multiple
Workload	120h
Hours	**56**
Courses	56
Number of positions	

Frequency

Every year

Remark

Every year / Fall & Spring (Full year)

Summary

Acquisition of basic knowledge on emission processes relevant to high energy emission of cosmic objects. Acquisition of a broad knowledge of all types of high energy objects. General knowledge of a number physical processes relevant in high energy astrophysics.

Content

Processes generating photons (synchrotron radiation, Compton effect)
Sources of high energy radiations: neutron stars, black holes, quasars
Observation results both from ground based and space observations
Space mission overview
ESA scientific program

Lecturer : Prof. Andrii Neronov, Observatoire de Genève