

PHYS-710

Structure and evolution of galaxies (UNIGe)

University of Geneva faculty members

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

This course aims at providing a synthetic vision of the present state of knowledge on galaxies, which presents rapid changes thanks to recent technology development, both on the observational and computational aspects. The course plans to describe the world of galaxies from close to far away.

Content

Solar vicinity in the Milky Way
 Milky Way as a galaxy (spiral structure, bar bulb, center, exterior disk and halo)
 The local group
 The local supercluster
 Galaxy cluster
 Large scale structures

Are also presented :

The general properties of galaxies according to their Hubble type
 The main physical mechanisms (stellar formation, nucleosynthesis)
 Dark matter

Lecturer : Prof. Daniel Pfenniger, Observatoire de Genève

Learning Prerequisites**Recommended courses**

Master, option astrophysics