

PHYS-710

**Structure and evolution of galaxies (UNIGe)**

University of Geneva faculty members

<b>Cursus</b>	<b>Sem.</b>	<b>Type</b>
Physics		Obl.

Language of teaching	English
Credits	4
Session	
Exam	Multiple
Workload	120h
<b>Hours</b>	<b>56</b>
Courses	56
<b>Number of positions</b>	

**Frequency**

Every year

**Remark**

Every year / Fall &amp; 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