

## Physics of the Interstellar Medium - astro822

<i>Lehrveranstaltung</i>	Physics of the Interstellar Medium
<i>LV-Nr.</i>	astro822

Kategorie	LV-Art	Sprache	SWS	LP	Semester
Required	Lecture with exercises	English	3+1	6	ST

### Zulassungsvoraussetzungen:

**Empfohlene Vorkenntnisse:** Introductory astronomy

**Studien- und Prüfungsmodalitäten:** Requirements for the examination (written or oral): successful work with the exercises

**Dauer der Lehrveranstaltung:** 1 semester

**Lernziele der LV:** The student shall acquire a good understanding of the physics and of the phases of the ISM. The importance for star formation and the effects on the structure and evolution of galaxies is discussed.

**Inhalte der LV:** Constituents of the interstellar medium, physical processes, radiative transfer, recombination, HI 21cm line, absorption lines, Stromgren spheres, HII regions, interstellar dust, molecular gas and clouds, shocks, photodissociation regions, energy balances, the multi-phase ISM, gravitational stability and star formation.

### Literaturhinweise:

B. Draine; The Physics of the Interstellar and Intergalactic Medium (Princeton Univ. Press 2010)

J. Lequeux; The Interstellar Medium (Springer 2005)

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