

<b>Module:</b>	<b>Elective Advanced Lectures: Observational Astronomy</b>
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<b>Module No.:</b> astro840
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<b>Course:</b>	 <b>Submillimeter Astronomy</b>
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<b>Course No.:</b> astro842
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Category	Type	Language	Teaching hours	CP	Semester
Elective	Lecture with exercises	English	2+1	4	WT

**Requirements for Participation:**

**Preparation:**

Basic astronomy knowledge

**Form of Testing and Examination:**

Requirements for the examination (written or oral): successful work with the exercises

**Length of Course:**

1 semester

**Aims of the Course:**

Students with B.Sc. in Physics will be introduced to astronomy in the submillimeter wavelength range, one of the last spectral regions to be explored with new high-altitude ground-based or airborne telescopes, and from space

**Contents of the Course:**

The basic concepts of emission/excitation mechanisms from interstellar dust and molecules are discussed as well as the properties of the observed objects: the dense interstellar medium, star forming regions, circumstellar environments. Star formation near and far is a central focus of submillimeter astronomy and will thus be introduced in depth. Telescopes, instrumentation, and observational techniques will be described in the course

**Recommended Literature:**

Contemporary review articles