

## Seminar - astro890

<b>Module No.</b>	<b>astro890</b>
<i>Category</i>	Elective
<i>Credit Points (CP)</i>	4
<i>Semester</i>	8.

### Module: Seminar

#### Module Elements:

Nr	Course	Course No.	CP	Type	Teaching hours	Semester
1	Seminar on Cosmology	astro891	4	seminar	2	WT/ST
2	Seminar on Radio Astronomy	astro892	4	seminar	2	WT/ST
3	Seminar on Stellar Systems: "Star Clusters and Dwarf Galaxies"	astro893	4	seminar	2	WT/ST
4	Specialized Seminars	astro894	4	seminar	2	WT/ST

#### Requirements:

#### Preparation:

**Content:** Modern developments in astrophysics are discussed using recent literature

#### Aims/Skills:

These seminars will introduce the student for the first time into professional research in astrophysics.

Active participation will furnish the student with the skill to read and present modern research topics

**Form of Testing and Examination:** Talk

**Length of Module:** 1 semester

**Maximum Number of Participants:** ca. 100

**Registration Procedure:** s. <https://basis.uni-bonn.de> u. <http://bamawww.physik.uni-bonn.de>

#### Note:

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## Seminar on Cosmology - astro891

<i>Course</i>	Seminar on Cosmology
<i>Course No.</i>	astro891

Category	Type	Language	Teaching hours	CP	Semester
Elective	Seminar	English	2	4	WT/ST

### Requirements:

**Preparation:** astro812 (Cosmology)

**Form of Testing and Examination:** Talk

**Length of Course:** 1 semester

**Aims of the Course:** The students will be introduced to the newest state of knowledge in cosmology. They will familiarize themselves with open questions and acquire knowledge on the newest methods in research

**Contents of the Course:** The newest literature (in particular using papers from the astro-ph preprint server) relevant to the research on cosmology will be presented in short talks and will be reviewed

### Recommended Literature:

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## Seminar on Radio Astronomy - astro892

<i>Course</i>	Seminar on Radio Astronomy
<i>Course No.</i>	astro892

Category	Type	Language	Teaching hours	CP	Semester
Elective	Seminar	English	2	4	WT/ST

### Requirements:

**Preparation:** astro841 (Radio Astronomy: Tools, Applications, Impacts)

**Form of Testing and Examination:** Talk

**Length of Course:** 1 semester

**Aims of the Course:** The participating students will learn in depth how the radio-astronomical tools can be utilized in practice to scrutinize a wide range of astrophysical phenomena. Technically, this will cover the whole radioastronomical band, from meter-wavelengths to the sub-mm regime

**Contents of the Course:** The students will give oral presentations on a selected subject from the recent literature (refereed journals and proceedings). These will cover both, scientific advancements made with radio-astronomical techniques as well as technical developments. The presentations will be prepared by the students with support by the supervisor(s)

### Recommended Literature:

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## Seminar on Stellar Systems: “Star Clusters and Dwarf Galaxies” - astro893

<i>Course</i>	Seminar on Stellar Systems: "Star Clusters and Dwarf Galaxies"
<i>Course No.</i>	astro893

Category	Type	Teaching			Semester
		Language	hours	CP	
Elective	Seminar	English	2	4	WT/ST

### Requirements:

**Preparation:** astro811 (Stars and Stellar Evolution), astro821 (Astrophysics of Galaxies)

**Form of Testing and Examination:** Talk

**Length of Course:** 1 semester

**Aims of the Course:** The students will be introduced to the newest state of knowledge in the field of Star Clusters. They will familiarize themselves with open questions and acquire knowledge on the newest methods in research

**Contents of the Course:** The newest literature (in particular using papers from the astro-ph preprint server) relevant to the research on stellar populations, star clusters and dwarf galaxies will be presented in short talks and discussed

### Recommended Literature:

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## Specialized Seminars - astro894

<i>Course</i>	Specialized Seminars
<i>Course No.</i>	astro894

Category	Type	Language	Teaching hours	CP	Semester
Elective	Seminar	English	2	4	WT/ST

### Requirements:

**Preparation:** Good results in the first Semester of the M.Sc. in Astrophysics programme

**Form of Testing and Examination:** Talk

**Length of Course:** 1 semester

**Aims of the Course:** Students will gain insight in special fields and their most recent developments. Knowledge about the newest methods and newest results will be acquired

**Contents of the Course:** The newest literature from preprints, reviews and other up-to-date material on specialised topics, chosen based on the most recent developments in special areas of astrophysics, will be presented in short talks and discussed. The main theme will vary from semester to semester

### Recommended Literature:

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