Module Name **Advanced Seminar on Current Topics of Molecular and Astrophysics**						
Type of Module Advanced Module			**Module Code** AM-AstroSem			
Identification Number MN-CS-AstroSem	**Workload** 90 Hours	**Credit Points** 3 CP	**Term** 1. – 3. Semester	**Offered Every** WiSe/SuSe	**Start** Winter and Summer	**Duration** 1 Semester

1	**Course Types** a) Seminar	**Contact Time** 30 h	**Private Study** 60 h	**Planned Group Size** <15 Students

2	**Module Objectives and Skills to be Acquired** At the beginning of each semester a list of current research topics is presented to the students in the seminar. The topics are mostly based on one or more recent publications of general interest to the subject of molecular and astrophysics. Students pick one topic, read selected papers, discuss the content with a tutor, prepare a seminar talk, make the presentation in front of an audience and answer questions of the audience related to the presentation.
3	**Module Content** Depending on choice of topic of presentation
4	**Teaching Methods** Seminar
5	**Prerequisites (for the Module)** Formally: none Regarding the content: Atomic Physics and Quantum Mechanics at the level of the bachelor courses in physics, Molecular Physics I, Astrophysics I and II
6	**Type of Examination** Presentation in form of a seminar talk. Afterwards answering of questions from the audience.
7	**Credits Awarded** The module is passed by passing the seminar talk. The grade given for the module is equal to the grade of the seminar talk.
8	**Compatibility with other Curricula** The module is part of the Master of Science in Physics.
9	**Proportion of Final Grade** 3/114
10	**Module Coordinator** Prof. Dr. S. Schlemmer, Prof. Dr. P. Schilke

11	**Further Information** **Recommended literature:** Selected reading of publications based on the topic of choice