

Colloquia in Physics FU0001-

Fysikum

Colloquia in Physics

FU0001. 10 credits.

The aim of the course is to provide broadening within the PhD student's research subject (theoretical physics or physics).

During the first two years of studies the student selects 10 colloquia in consultation with the course coordinator. The course coordinator ensures that the selected colloquia achieve the expected broadening of knowledge and insights within the research subject. This is done by selection of colloquia within all the fields listed below. Before each selected colloquium, the students who have selected it go through suitable background material together with a Fysikum lecturer. The material may consist of a review which provides background to the field and possibly also a more specialised article in the field of the colloquium, when this is known in advance. After the colloquium each participating PhD student writes a short report (1-2 pages) which summarises the content of the colloquium and also may contain questions that arose and can be discussed further. The lecturer leads a follow-up discussion of the colloquium together with the PhD students where the reports and possibly questions concerning the colloquium are discussed.

Fields:

In consultation with the course coordinator, the 10 colloquia shall be distributed reasonably evenly between the fields below:

- * Nuclear physics, particle physics, astroparticle physics and cosmology
- * Atomic physics, molecular physics and quantum optics
- * Condensed matter physics and surface physics
- * Other physics

Report:

The report should contain:

- * A short summary of the content of the colloquium with a focus on physics
- * What is new to the PhD student
- * Why the field is important
- * An outlook with potential future developments
- * Feedback to the colloquium committee about the content and level of the colloquium

This course is to be taken as part of the PhD programme.

Course period

VT18. After this, the course will next be taught autumn 2018

Litterature

Info is provided at the start of the course.

Required prior courses

Accepted as PhD student at Fysikum.

Teaching forms

The instruction consists in lectures and seminars. Participation in lectures and seminars is compulsory. In case of special circumstances the examiner may, after consultation with the lecturer, exempt the student from the obligation to take part in certain compulsory instruction.

The course is taught in English.

Examination

a. The course is examined in the following way: To pass a colloquium the student is required to:

- * participate actively in preparatory and concluding discussions where familiarity with the previously distributed material is demonstrated

- * participate in the colloquium

- * hand in a report according to the template above

The lecturer responsible for each colloquium performs the assessment, summarises and forwards the participants feedback to the colloquium committee and informs the course coordinator about when a student has passed a colloquium. If a course component is taught in English, the component may also be examined in English.

b. Grading according to a two level criterion-referenced grading scale: Pass or Fail.

c. The grading criteria are distributed at the start of the course.

d. A student who has failed in a regular examination has the right to additional examinations as long as the course is taught. The number of examination sessions is not limited. Other compulsory course components are regarded as the same as examinations.

Current information

Teachers

Course syllabus

The official course syllabus can be found [here](#).

Course responsible**Bo Sundborg**

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