

## Examination criteria for Computational Physics (15 credits)

The focus of this course is applications of Numerical Methods on concrete physical problems.

### A Excellent

Through the computer programs written for the weekly exercises the student should i) demonstrate his/her excellent ability to apply well chosen numerical methods on a selection of physical problems. The programs will here be evaluated in several ways: reliability, computational speed and accuracy as well as transparency and readability. The student should further, through the oral and written reports, demonstrate his/her excellent ability to ii) judge and analyse the numerical description and iii) make error estimates.

### B Very Good

Through the computer programs written for the weekly exercises the student should i) demonstrate his/her very good ability to apply well chosen numerical methods on a selection of physical problems. The programs will here be evaluated in several ways: reliability, computational speed and accuracy as well as transparency and readability. The student should further, through the oral and written reports, demonstrate his/her very good ability to ii) judge and analyse the numerical description and iii) make error estimates.

### C Good

Through the computer programs written for the weekly exercises the student should i) demonstrate his/her good ability to apply well chosen numerical methods on a selection of physical problems. The programs will here be evaluated in several ways: reliability, computational speed and accuracy as well as transparency and readability. The student should further, through the oral and written reports, demonstrate his/her good ability to ii) judge and analyse the numerical description and iii) make error estimates.

### D Satisfactory

Through the computer programs written for the weekly exercises the student should i) demonstrate his/her satisfactory ability to apply well chosen numerical methods on a selection of physical problems. The programs will here be evaluated in several ways: reliability, computational speed and accuracy as well as transparency and readability. The student should further, through the oral and written reports, demonstrate his/her satisfactory ability to ii) judge and analyse the numerical description and iii) make error estimates.

### E Passed

Through the computer programs written for the weekly exercises the student should i) demonstrate his/her sufficient ability to apply well chosen numerical methods on a selection of physical problems. The programs will here be evaluated in several ways: reliability, computational speed and accuracy as well as transparency and readability. The student should further, through the oral and written reports, demonstrate his/her sufficient ability to ii) judge and analyse the numerical description and iii) make error estimates.

### Fx Insufficient

The student fails to demonstrate a sufficient ability to apply numerical methods on physical problems. The programs written during the course will be judged with respect to reliability, computational speed and accuracy as well as transparency and readability. Alternatively the student fails to demonstrate his/her ability to judge and analyse a numerical description or to make error estimates.

### F Failed

The student shows a considerable lack of ability to apply numerical methods on physical problems or to judge and analyse a numerical description