

The informal interview, in English, will be based on the following topics (fundamentals of mathematics, physics and informatics), whose knowledge is considered relevant to successfully follow the Master program:

- Vector and matrix algebra;
- Elementary functions (exponential, trigonometric functions, ...);
- Integral calculus and differential calculus;
- Differential operators (gradient, curl, ...);
- Simple differential equations (e.g. harmonic oscillator, friction, ..);
- Descriptive statistics and probability theory.
- Newton Laws;
- Energy conservation;
- Maxwell equations;
- I and II principles of Thermodynamics;
- Equation of state for gas and liquids.
- Knowledge of programming languages (python or fortran or C++ or Matlab or Mathematica or R, ...).