

**PHYS2356 Recent developments in nuclear physics**

[45h] 7.5 credits

This course is taught in the 2nd semester

**Teacher(s):** Youssef El Masri, Jan Govaerts, Pierre Leleux, Krzysztof Piotrkowski  
**Language:** French  
**Level:** Second cycle

**Aims**

Introducing the student to recent research in nuclear physics or using nuclear techniques, in the Institute of Nuclear Physics of the UCL.

**Main themes**

Two parts to choose from the six following :

- A. Nuclear astrophysics (P. Leleux)
- B. Electroweak interaction (Th. Delbar)
- C. Nuclear reactions (Y. El Masri)
- D. Applications of nuclear physics to medicine and biology (JP Meulders)
- E. Symmetry (J. Govaerts)
- F. Nuclear models (N.)
- G. Neutron physics (Y. El Masri, JP Meulders)

**Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)**

Prerequisites: Advanced nuclear physics (PHYS 2355).