

**PHYS2440 Electrostrong interactions and symmetries**

[45h] 5 credits

This course is taught in the 1st and 2nd semester

Teacher(s): Jean-Marc Gérard, Jacques Weyers**Language:** French**Level:** Second cycle**Aims**

Introduction to elementary particle physics

Main themes

Fundamental aspects of elementary particle physics : theoretical tools (relativistic invariance, quantum field theory, symmetry), quantum numbers, quarks models, gauge and effective theories, electroweak interactions.

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

Prerequisites: PHYS 2290.

Openings: research in Physics of elementary particles.

Other credits in programs**PHYS22/G** Deuxième licence en sciences physiques (5 credits)