

## Item 7: Doctoral Program

Background: new federal law on support to Universities, doctoral program comes back home

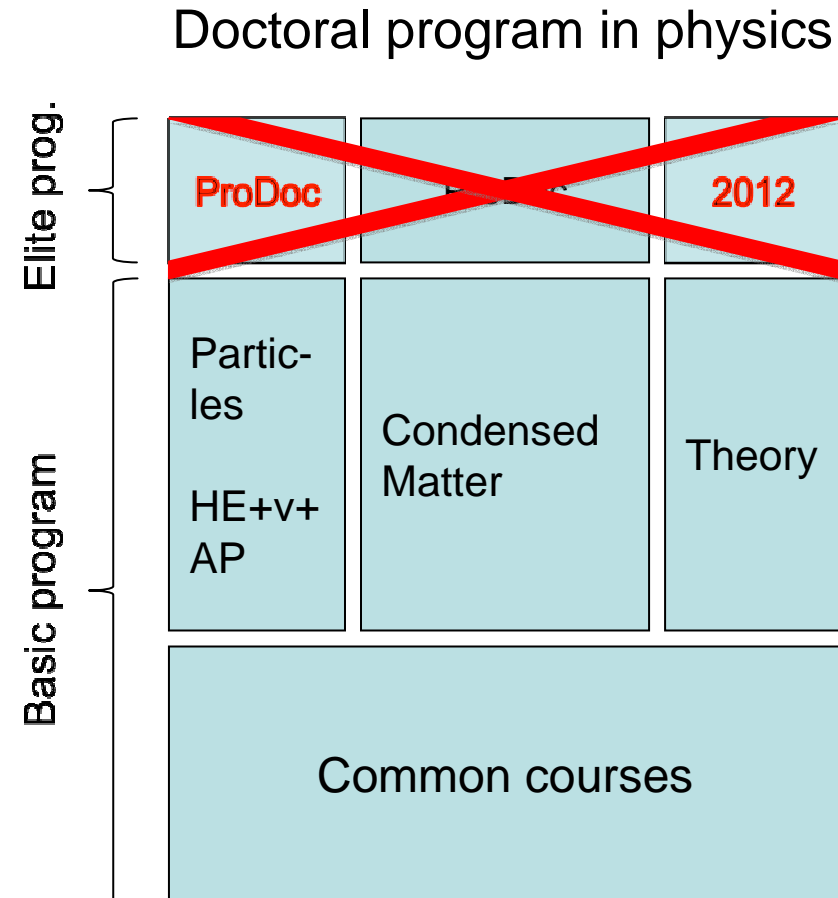
Doctoral education aims (CRUS, 3/7/2008):

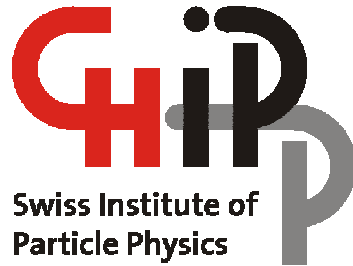
- Development of **scientific competencies**: ability to do independent scientific work;
- Acquisition of **scientific knowledge** and expertise (disciplinary and interdisciplinary), methods and **transferable skills** (project management, presentation techniques, languages and communication etc.) ;
- Active **networking** with other PhD students and with advanced researchers in Switzerland and abroad.

The PhD prepares for research jobs within academia as well as outside (society at large, private sector, public service...) and gives the ability to perform very diverse and demanding professional tasks.

# Doctoral program in physics

- Each university defines its own doctoral program
- Evaluation, but no ECTS credits, **no doctoral school**
- Resources are coordinated in a **network**, to define a coherent program
- Advisor and student decide on individual program
- **Model:** 3ème Cycle + transferable skills + students networking = CUSO doctoral program





# Progress on Doctoral Program

- Western Switzerland:
  - CRUS doctoral program to replace 3ième cycle in 2010/11
  - Add PhD days (organized by students), transferable skills
  - Responsible: Peter Wittwer (UniGe) [physique.cuso.ch](http://physique.cuso.ch)
- Similar discussions in eastern Switzerland:
  - More resistance, bad experience with doctoral schools
  - Loose model of CUSO program should appeal?
- CHIPP:
  - ProDoc had a slow start, now making progress
  - Web portal [www.chipp.ch/chipp-doctoral-programme.html](http://www.chipp.ch/chipp-doctoral-programme.html)
  - CHIPP winter school for 2011
  - Responsible: Andrew Hamilton (UniGe), leaves summer 2011
  - ProDoc instrument will end in 2012, but calls in 2010 and 2011