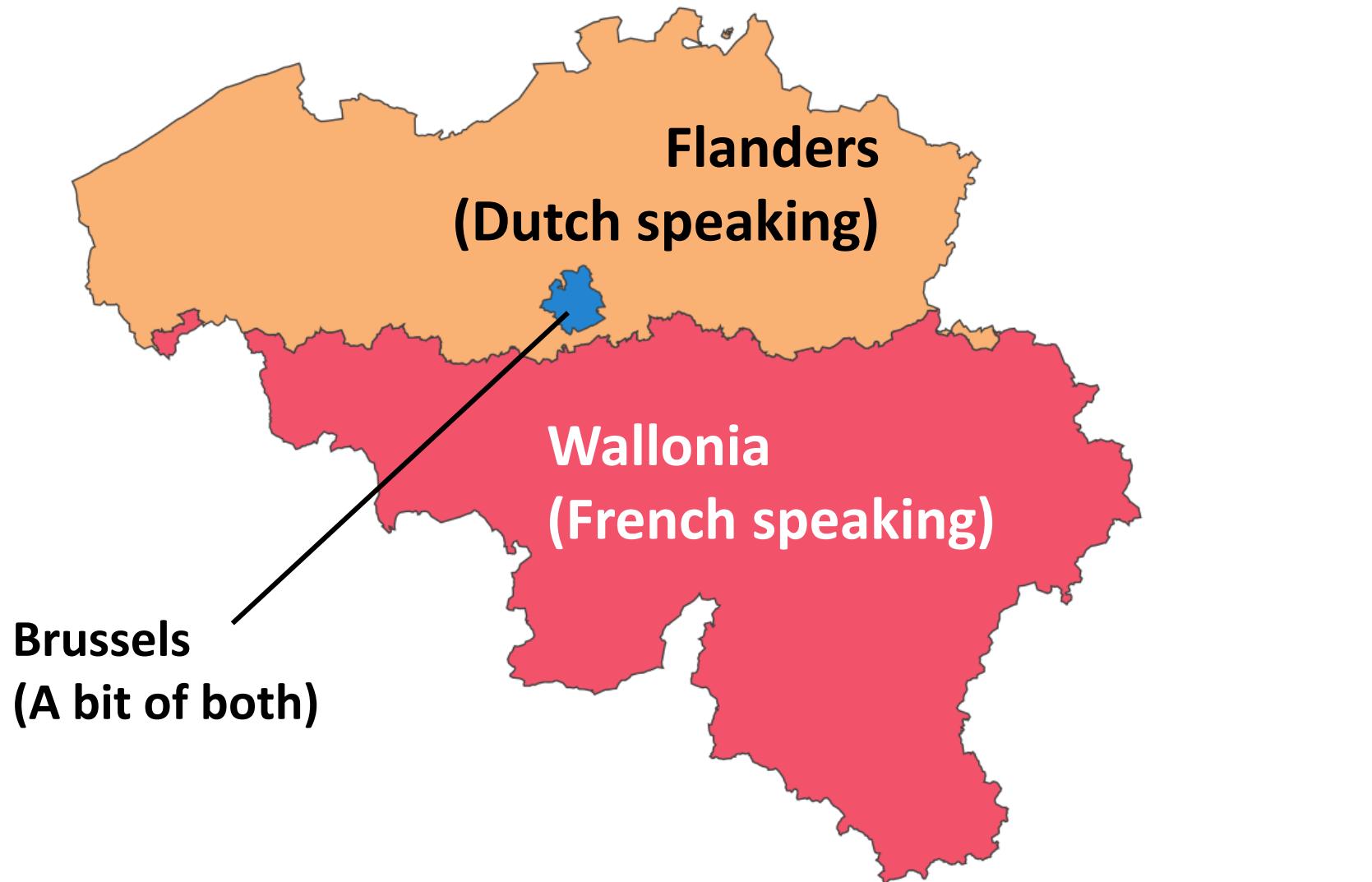
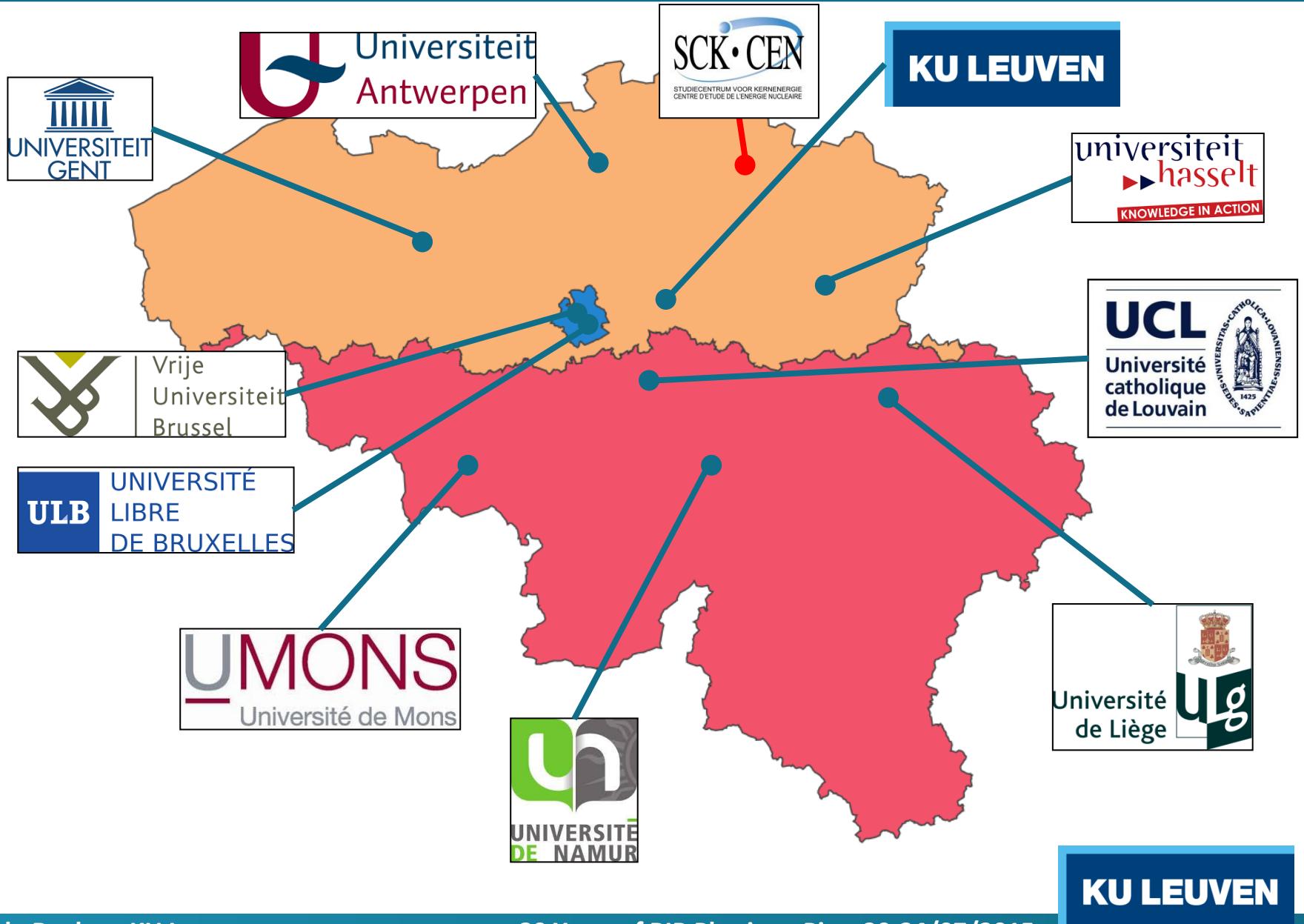




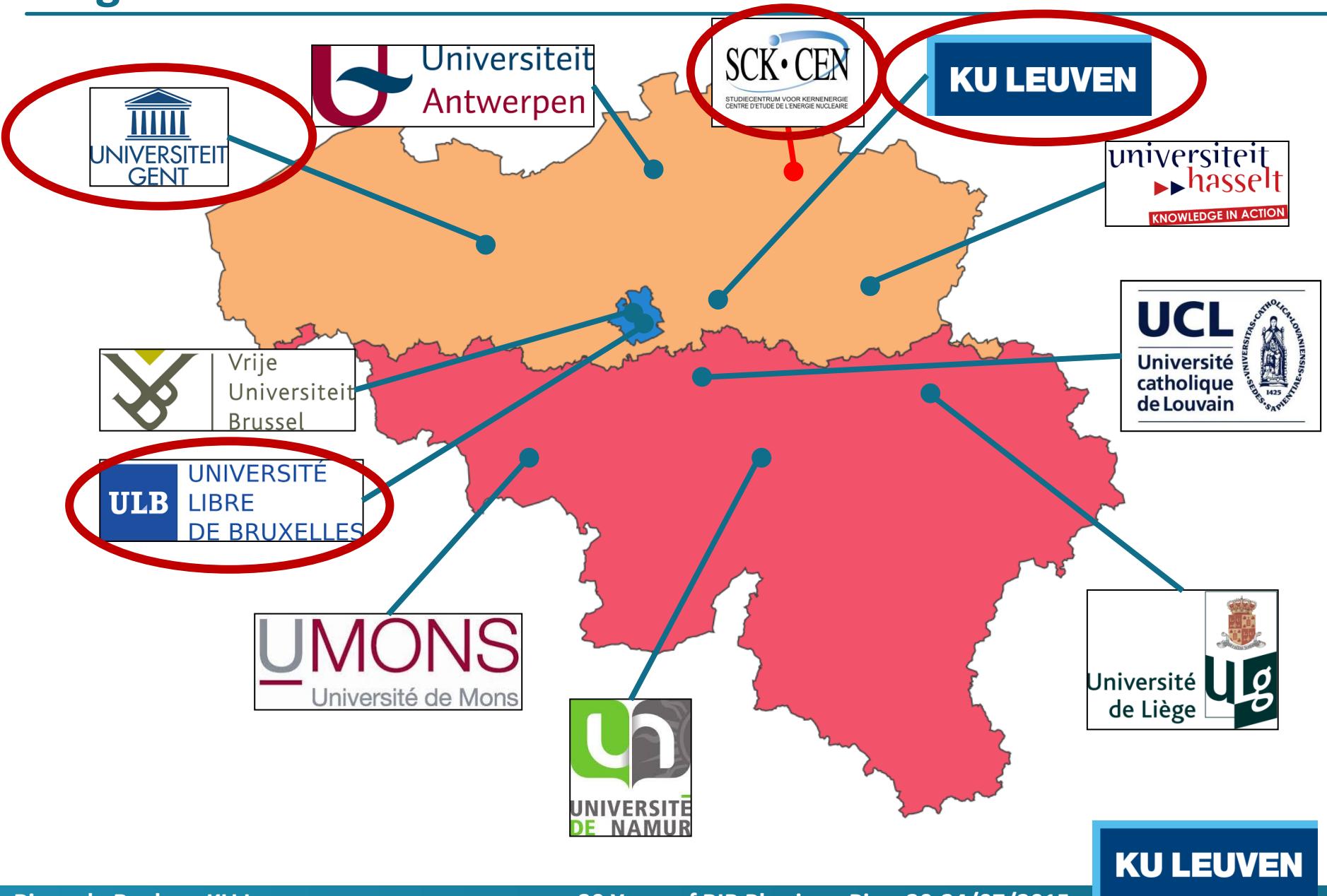
Belgian Regions



Belgian Universities and SCK•CEN



Belgian Universities and SCK•CEN



Research in Nuclear Physics

Belgian Research Initiative on Exotic Nuclei

...bring together the Belgian expertise on theoretical and experimental nuclear physics, nuclear astrophysics and accelerator driven systems to execute a programme focused around radioactive ion beams research...

- KU Leuven
- Université Libre de Bruxelles
- Universiteit Gent
- Université de Liege
- SCK-CEN
- International partners: GANIL, IRFU, GSI, Univ Koeln



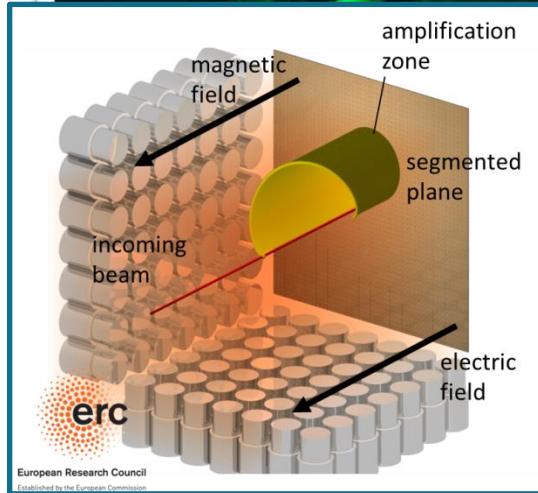
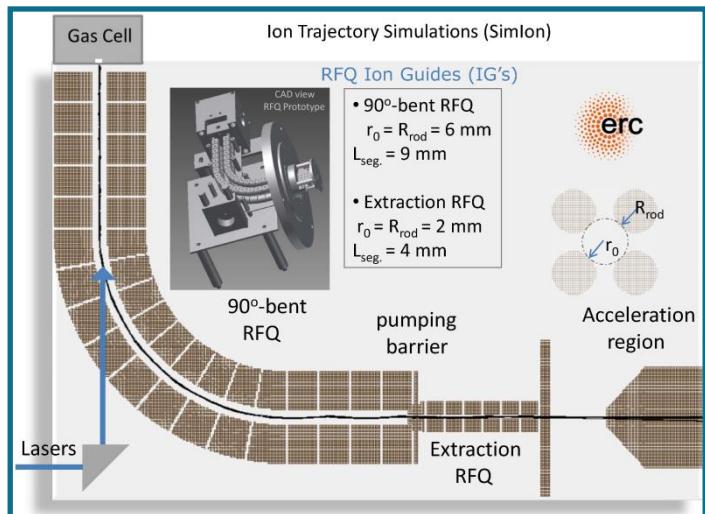
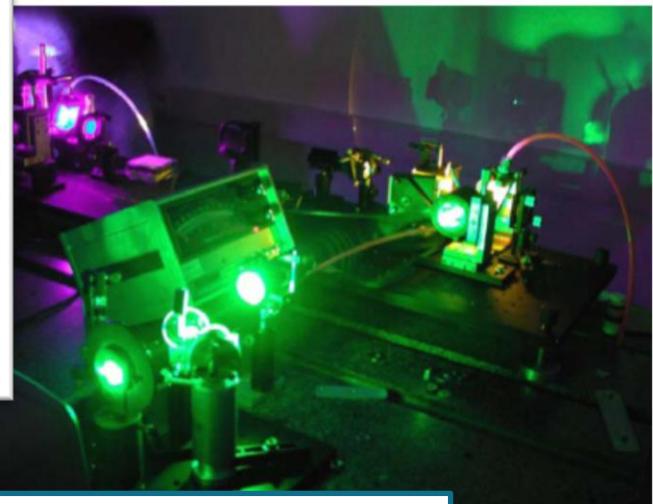
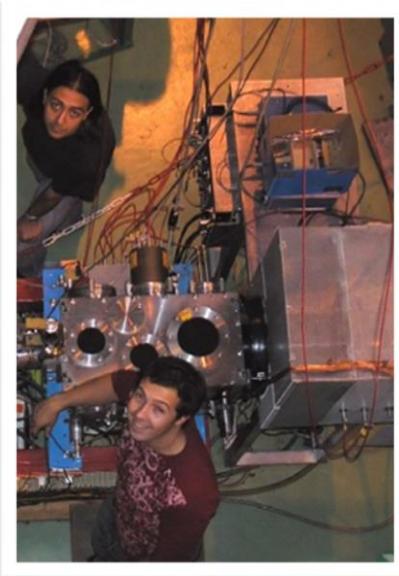
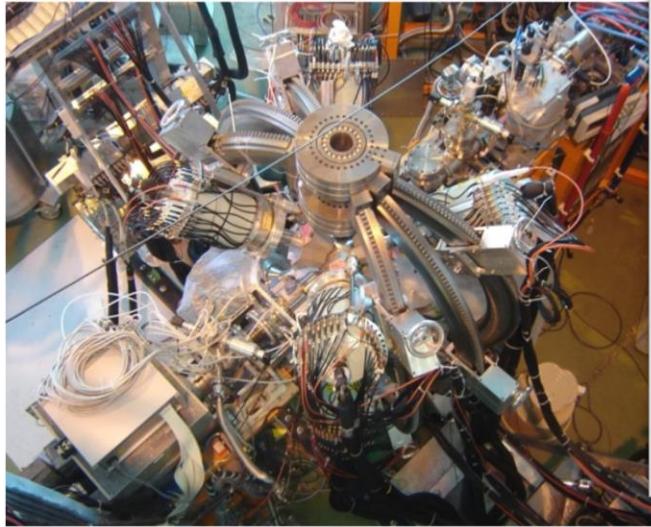
Research in Nuclear Physics: KU Leuven

Instituut voor Kern- en Stralingsfysica

Thomas Cocolios, Gerda Neyens, Mark Huyse,
Riccardo Raabe, Nathal Severijns, Piet Van Duppen
+ Thomas Duguet, Takaharu Otsuka

- Nuclear structure: Laser spectroscopy, β -decay, reactions
- Fundamental interactions: β -decay, neutron EDM
- Interdisciplinary research
- Development of new detection methods/instruments
- Experiments at large-scale facilities
- Theory: ab-initio, Monte-Carlo Shell Model

Research in Nuclear Physics: KU Leuven



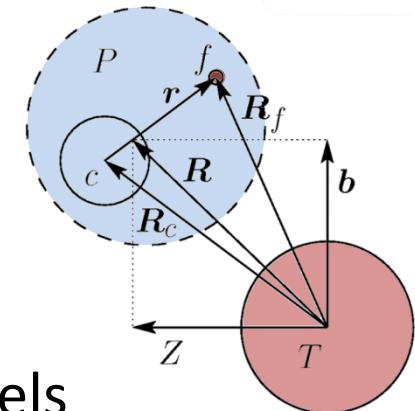
KU LEUVEN

Research in Nuclear Physics: ULB

Physique Nucléaire Théorique et Physique Mathématique

Daniel Baye, Pierre Capel, Pierre Descouvemont,
Paul-Henri Heenen, Jean-Marc Sparenberg

- Structure of heavy nuclei with “mean field” methods
Spectra and decay of nuclei far from stability
- Structure and reactions of light nuclei
by microscopic multi-cluster models
Nuclear halos; Stellar nucleosynthesis
- Heavy ion reactions with phenomenological models
Elastic scattering, Coulomb dissociation of nuclei far from stability

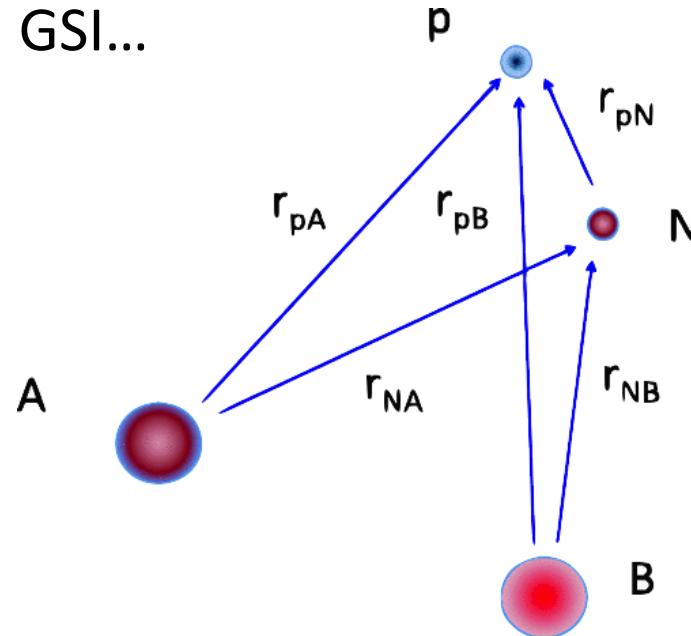


Research in Nuclear Physics: UGent

Theoretical Nuclear Physics and Statistical Physics

Kris Heyde, Nathalie Jachowicz, Jan Ryckebusch

- Modeling neutrino-nucleus interactions
Mass properties of neutrinos, EoS of hadronic matter
- Modeling of (p,pN) reactions from unstable nuclei
Studying data from RIKEN, GSI...

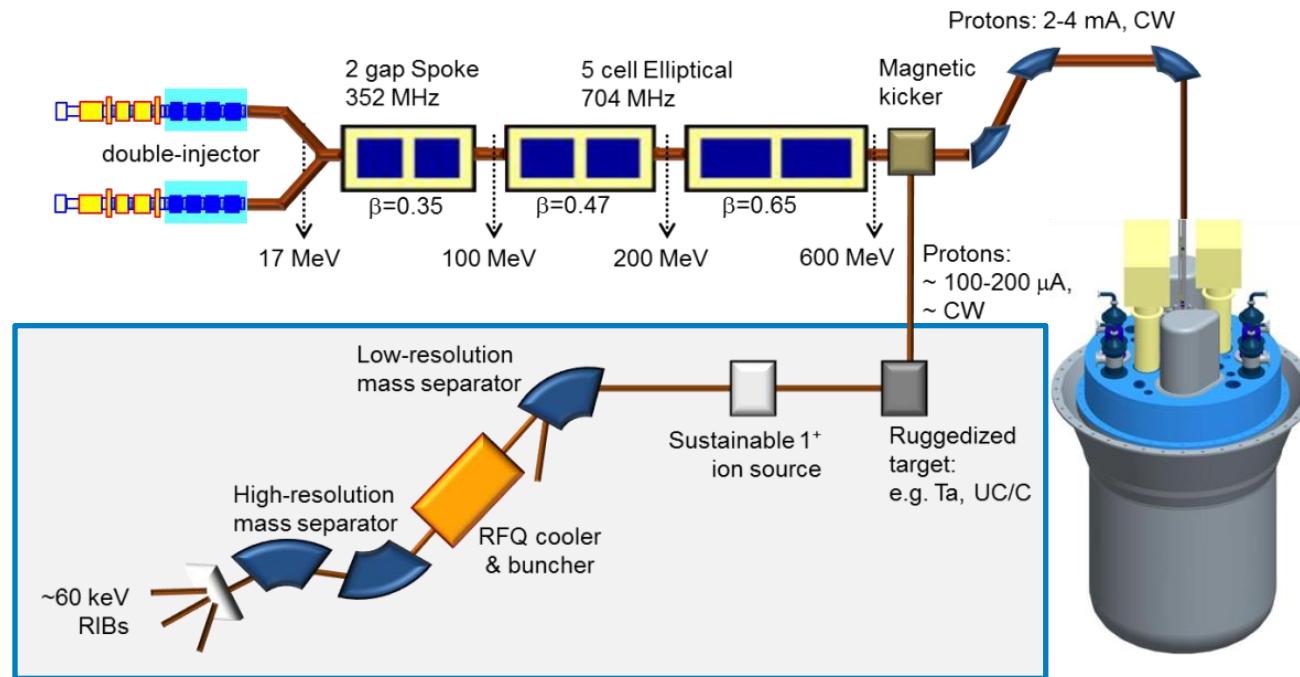


Research in Nuclear Physics: SCK•CEN

ISOL @ Myrrha

Lucia Popescu

- Optimisation of RIB production
- Consolidating the physics case for ISOL@MYRRHA



KU LEUVEN

Why a PhD in Belgium

- High international profile of the research groups
- Diverse research
 - learn about many experimental methods and theory models
- Training: both research-related and generic skills
- Good framework (doctoral schools)



- Four years
- Admission through selection process (CV, references, interview)
- Statute: research associate or grant holder, full salary (13 months)
- More info: www.kuleuven.be/personeel/jobsite/en/phd

Why a PhD in Belgium

- Services do work...
Housing, documents, taxes...
- Very well-connected
Airports, trains
- Culturally rich and diverse



“It’s the little differences.”

Why a PhD in Belgium

- Services do work...
Housing, documents, taxes...
- Very well-connected
Airports, trains
- Culturally rich and diverse



“It’s the little differences.”



KU LEUVEN