

Nuclear Physics and related Activities in Belgium

Introduction and The Belgian Research Initiative on eXotic nuclei - BRiX network

P. Van Duppen (KU Leuven)

Experimental nuclear physics activities – a short review

R. Raabe (KU Leuven)

Theoretical nuclear physics activities – a short review

P. Capel (ULB, Brussels)

Condensed matter research using nuclear-physics techniques – a short review

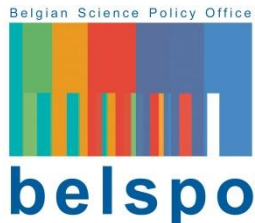
L. da Costa Pereira (KU Leuven)

Interdisciplinary activities – medical applications

Th. Cocolios (KU Leuven)

The MyRRHA project and perspectives for ISOL@MYRRHA

M. Schyns (SCK•CEN, Mol)



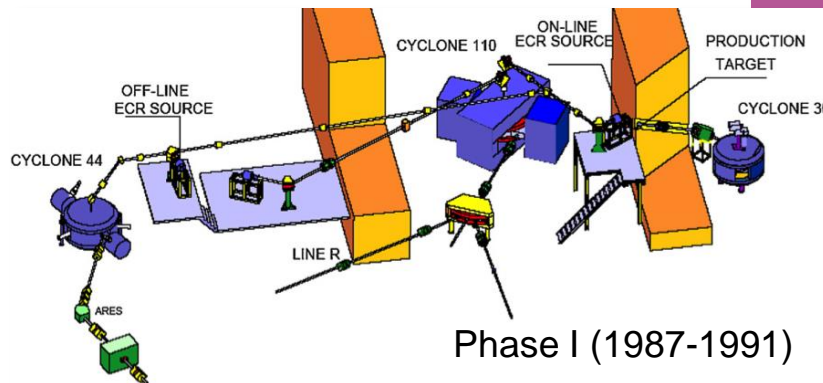
KU LEUVEN

The Belgian Research Initiative on eXotic nuclei - BriX

Funded by the Interuniversity Attraction Poles Programme initiated by the Belgian Science Policy Office



The "Interuniversity Attraction Poles" (IAP) Programme aims to provide support for teams of excellence in basic research that belong to Belgium's various (linguistic) Communities. These teams work as part of a network in order to increase their joint contribution to general scientific advances and, where applicable, to international scientific networks.



KU LEUVEN

The BriX network partners

➤ Belgian partners:

- Experimental nuclear and atomic physics (Leuven)
6 staff members - 34 PhD and post-docs
- Theoretical nuclear- and atomic physics and astrophysics (Brussels)
6 (+2) staff members - 5 PhD and post-docs
- Theoretical nuclear physics (Gent)
2 (+1) staff members - 10 PhD and post-docs
- Experimental and theoretical atomic physics (Liege)
2 staff members - 2 PhD and post-docs
- Nuclear research reactor center (Mol)
5 staff members - 4 PhD and post-docs

KU LEUVEN

ULB



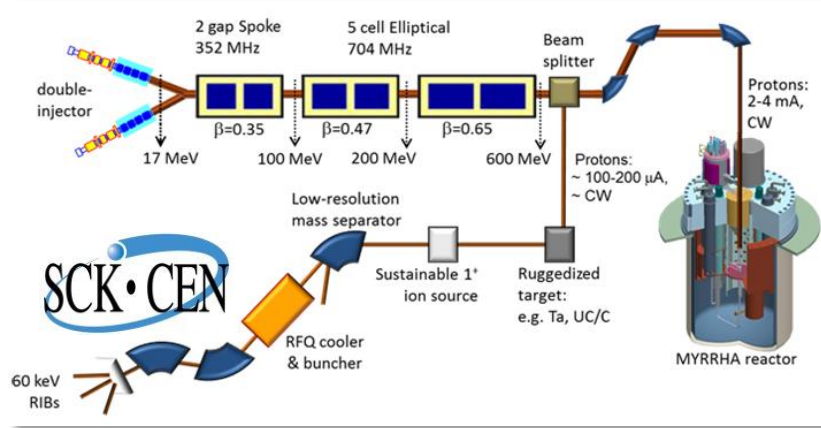
➤ International partners:



KU LEUVEN

The BriX network program

- Studies of exotic nuclei in the light mass region, along closed proton and/or neutron shells and towards the heaviest elements
- Nuclear properties, response of nuclei to electroweak and strong probes, and their importance for nuclear astrophysics
- Probe fundamental interactions through the decay characteristics of exotic nuclei
- ISOL@MYRRHA



- Experimental campaigns



KU LEUVEN

The BriX network - the people

