at DTU Nutech, Risø, Denmark 3 November 2016



A Compact Accelerator-driven Neutron Source in Denmark?

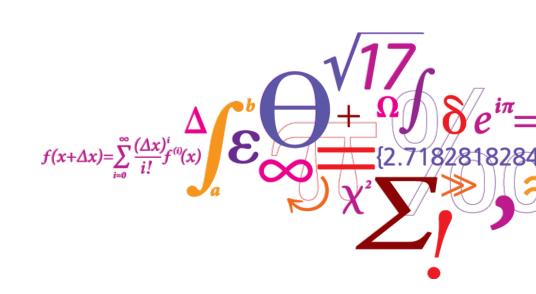


DTU Nutech, Technical University of Denmark



Welcome and brief introduction to DTU Nutech

Jens-Peter Lynov Director



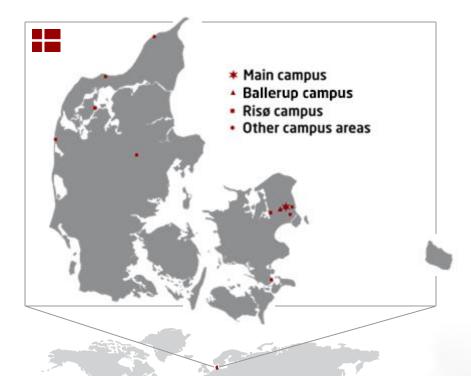
DTU Nutech

Center for Nuclear Technologies



Technical University of Denmark

(founded 1829; first rector H.C. Ørsted)



Key figures

Total students	11.000
including PhD	1.400
and Int. MSc	1.400
Research publications	5.700

Ranking

Leiden Ranking 2016:

no. 1 in the Nordic region

no. 21 in Europe

DTU Risø Campus



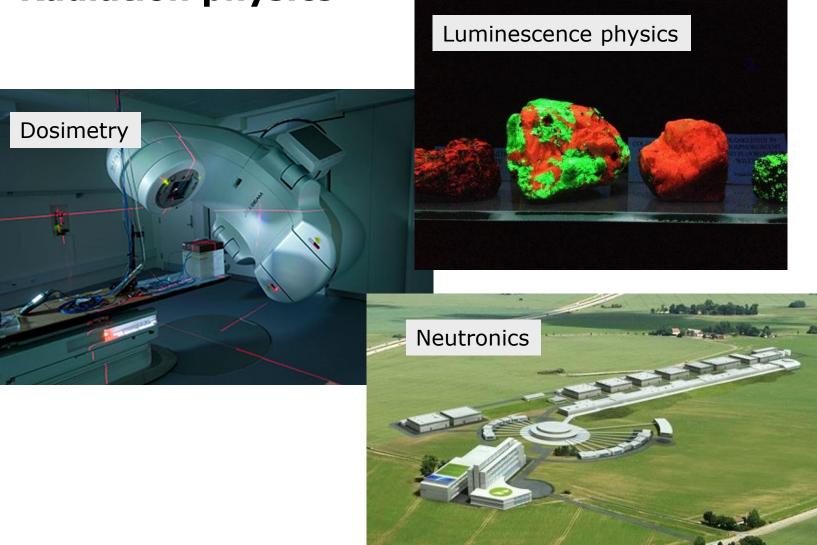


DTU Nutech is the Danish national competence center for nuclear technologies.

The aim of the center is to develop and utilize knowledge concerning radioactivity and ionizing radiation for the benefit of society.



Radiation physics



Radioecology – Studies of radioactivity in the environment



Chemical analysis

Radiation measurements

Mass spectroscopy

Monitoring of radioactivity in the Danish environment











Radiopharmaceuticals

R&D of radioactive drugs for diagnosis and therapy







Cyclotron for radioactive isotope production

Hot cell for chemical synthesis of radioactive drugs

Example of final drug: FDG for PET scans

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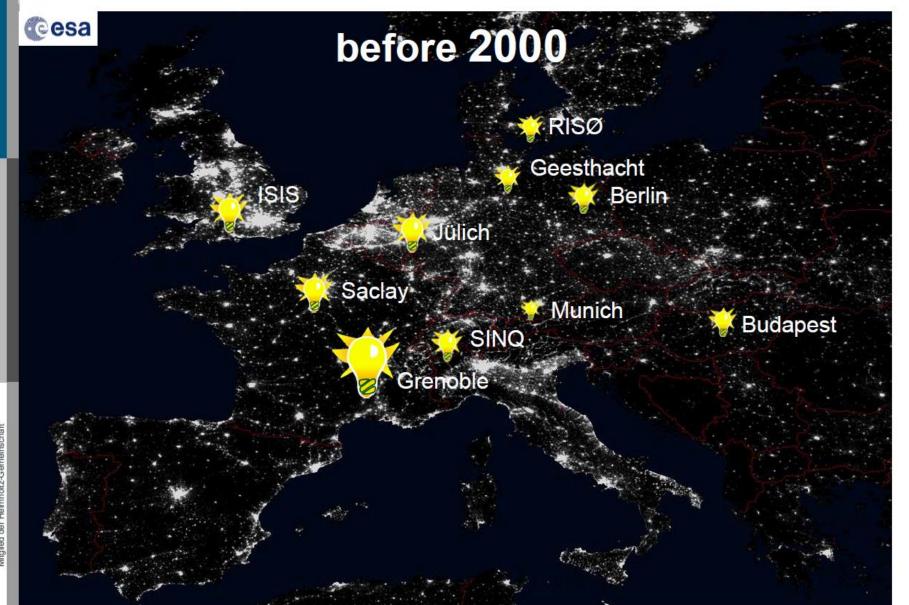


08:30 - 09:00	Registration and coffee
09:00 – 09:15	Welcome, agenda by Jens-Peter Lynov and Bent Lauritzen
09:15 – 09.45	Kurt Clausen, PSI (Neutron sources in Europe)
09:45 – 10:15	Markus Strobl, ESS (ESS perspectives and interests in a regional CANS)
10:15 – 10:45	David Baxter, LENS (Research with neutrons at the Low Energy Neutron Source)
10:45 – 11:15	Coffee break
11:15 – 11:45	Masato Ohnuma, Hokkaido University (Neutron as a daily tool; towards the application to the steel industry)
11:45 – 12:15	Mikael Jensen, DTU (Isotope production from CANS)
12:15 – 13.15	Lunch
13:15 – 15:00	Group work: Discussion of selected topics
15:00 – 15:30	Coffee break
15:30 – 17:00	Discussion and conclusions



Larger Neutron Centres

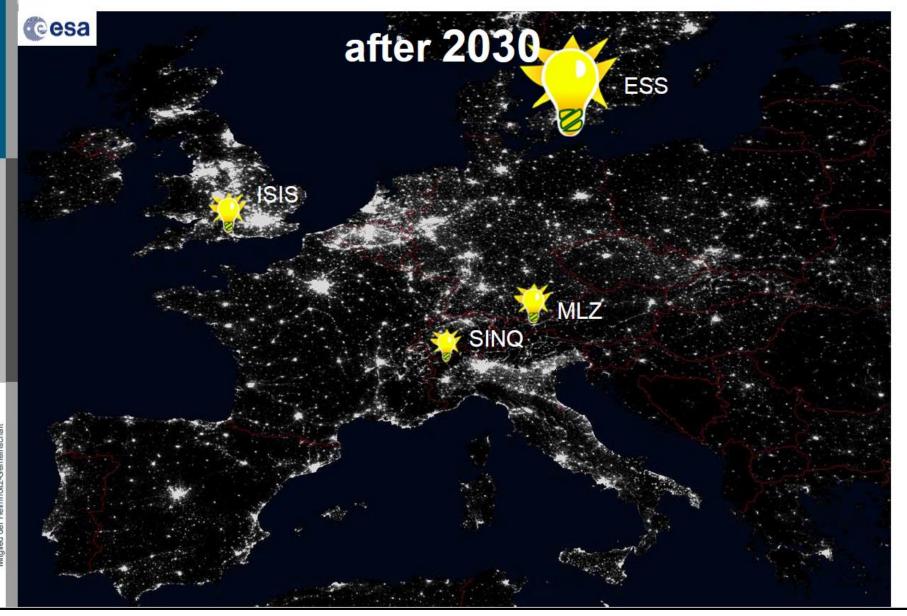






Possible Neutron Scenario Jülich

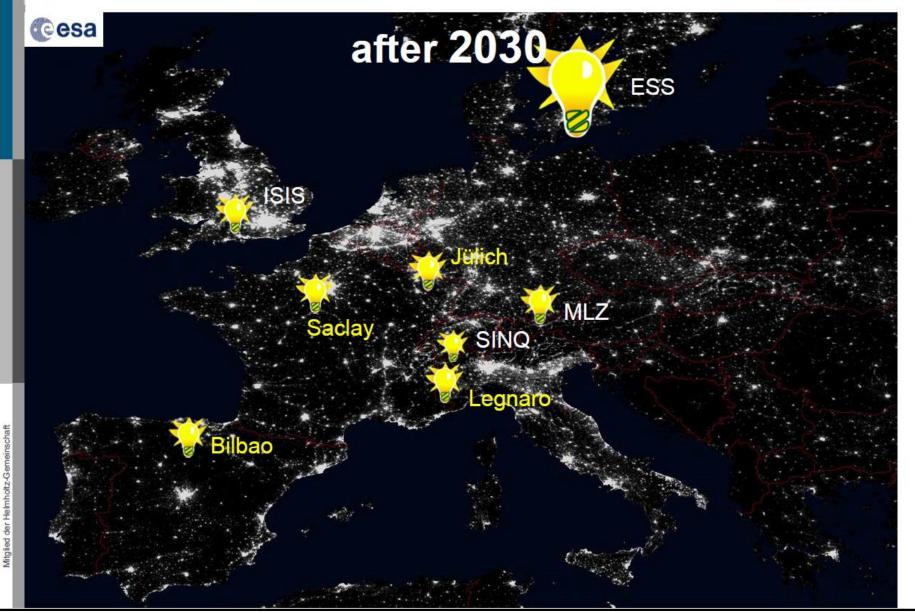






Desired Neutron Scenario JÜLICH







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