European strategy for astroparticle physics

Amsterdam 20 - 21 September 2007



Felix Meritis, at Keizersgracht 324, the Netherlands

DEFINING PRIORITIES FOR ASTROPARTICLE PHYSICS

- Second of 3 workshops conducted by the ERA-NET ASPERA and ApPEC to define the strategy for astroparticle physics in Europe.
- · Thematic priorities will be compared to the funding possibilities in Europe.
- The current astroparticle physics roadmap will be compared to roadmaps in nearby fields (astrophysics and particle physics) and in other regions of the world (US, Japan and China).
- Astroparticle Physics and Cosmology will be reviewed by Nobel laureates
 Cronin and G. Smoot

High Energy Gamma Rays Neutrino Mass High Energy Cosmic Rays High Energy Cosmic Neutrinos Dark Matter direct detection Gravitational Waves Low Energy Neutrinos & Proton decay



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Organised by ASPERA / Nikhef / FOM, Amsterdam, The Netherlands INFO at www.aspera-eu.org / roadmapmeeting@nikhef.nl

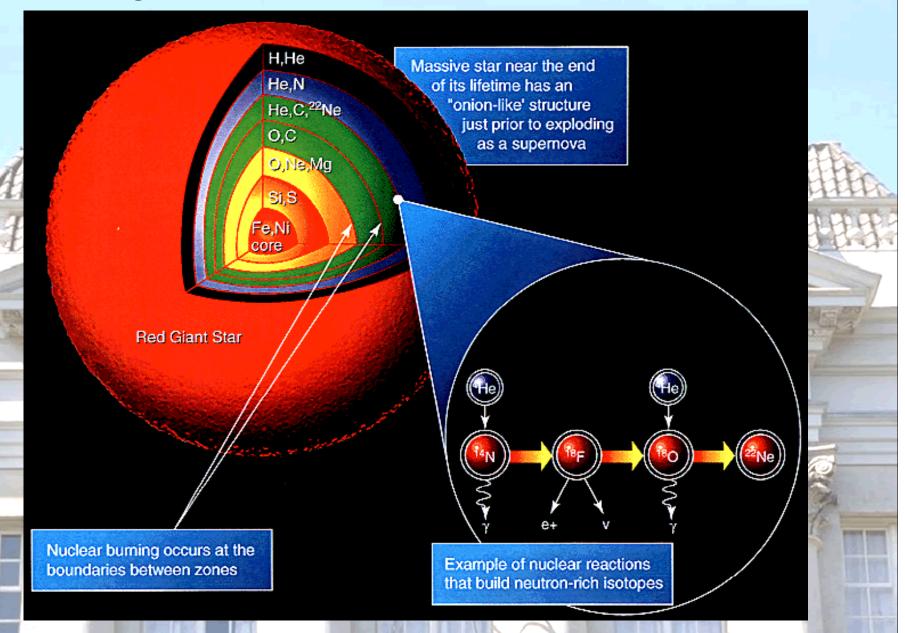




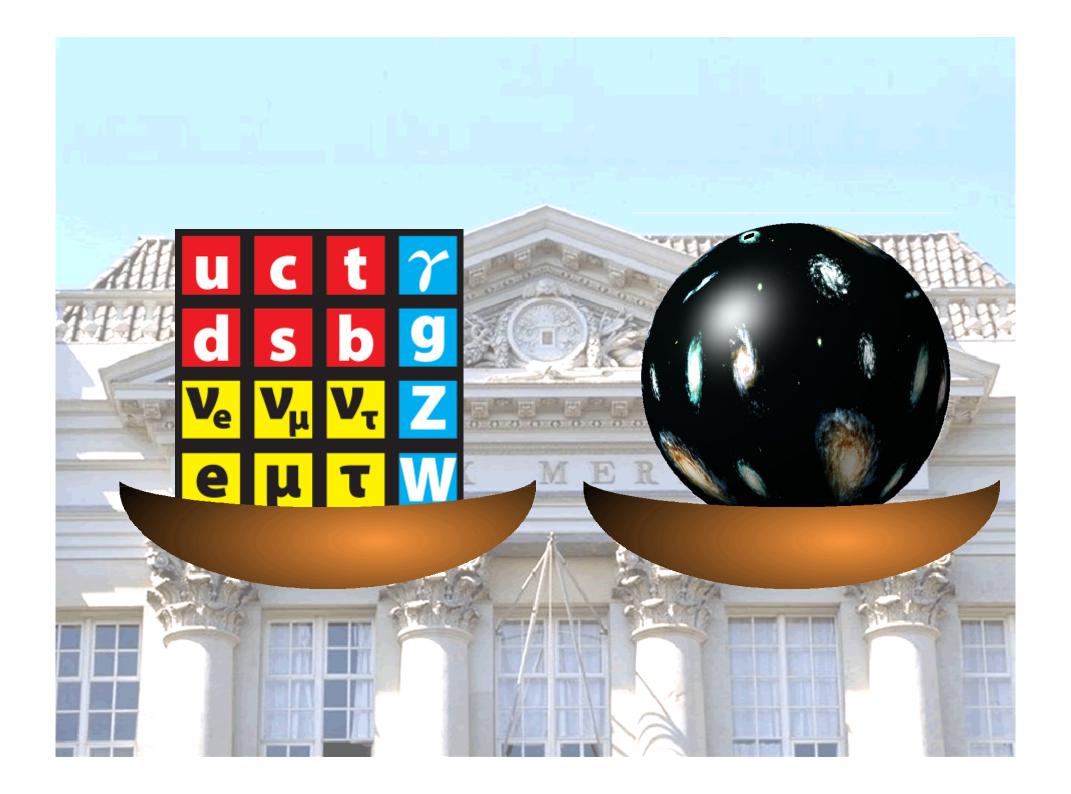


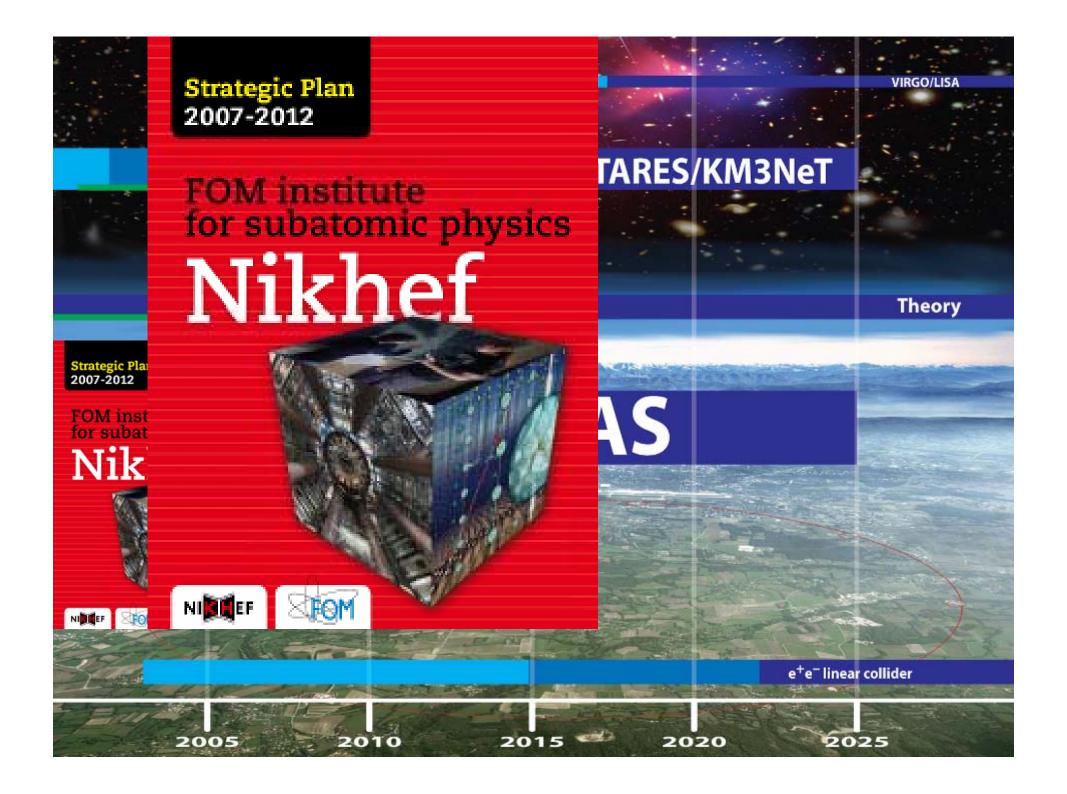


1957: Synthesis of the Elements in Stars



E. Margaret Burbidge, G. R. Burbidge, William A. Fowler, and F. Hoyle





Dream discovery scenarios for Nikhef include, apart from discovering the totally unexpected, the (almost) simultaneous discovery of e.g. a dark matter candidate particle or a magnetic monopole by one of our LHC experiments and by one of our astroparticle-physics experiments or the discovery of a point source emitting high-energy neutrinos (ANTARES) as well as high-energy cosmic rays (AUGER).



High Energy Gamma Rays Neutrino Mass High Energy Cosmic Rays **High Energy Cosmic Neutrinos** Dark Matter direct detection **Gravitational Waves** Low Energy Neutrinos & Proton decay