



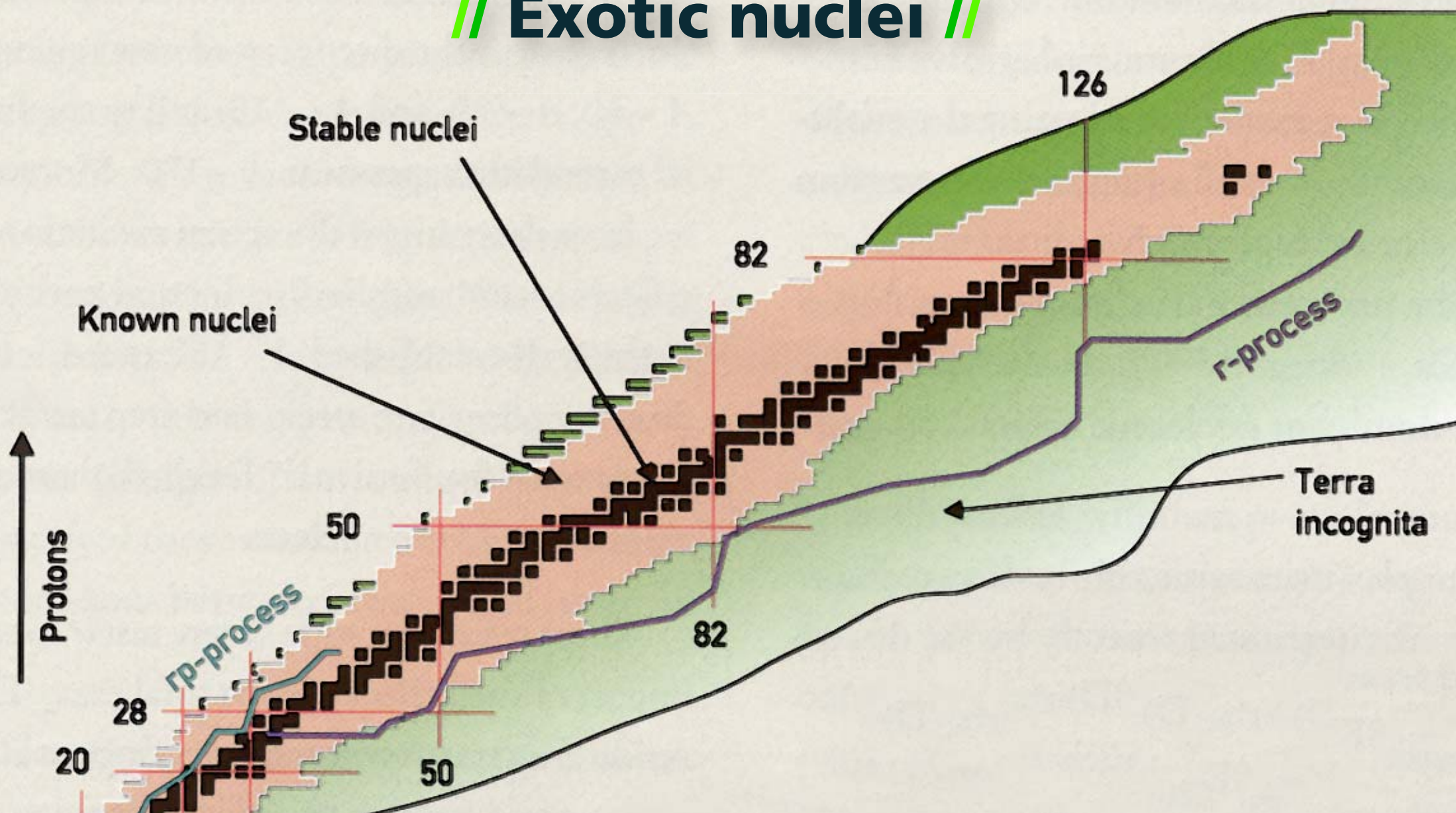
UNIVERSITÀ DEGLI STUDI DI MILANO

SCUOLA DI DOTTORATO IN FISICA
ASTROFISICA E FISICA APPLICATA

2011/2012

Physics
Colloquia

// Exotic nuclei //



Exotic nuclei, short lived radioactive isotopes, are an ideal laboratory to study the strong- and weak interaction at play in the nuclear medium.

Especially their unusual proton-to-neutron ratio allows to validate and improve state-of-the-art nuclear models.

An intriguing part of the nuclear-structure study of exotic nuclei deals with the delicate interplay between the individual nucleon motion and the collective nucleus behavior.

Furthermore, exotic nuclei are produced in explosive stellar events and therefore their properties are important for modeling explosive nucleosynthesis scenarios.

The ISOLDE facility at CERN produces a large variety of exotic nuclei and offers unique opportunities for such studies.

Distinctive features of the facility, like resonant laser ionization and ion trapping, will be presented and recent physics highlights will be discussed.

17 APR 2012

Piet Van Duppen

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Exotic nuclei

Gli incontri si terranno alle **ore 15:00**
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