Contribution ID: **17** Type: **Invited oral contribution**

Theoretical perspectives

Tuesday 11 October 2005 11:20 (40 minutes)

The position and even the existence of a neutron and a proton drip lines are among the great, still unresolved, questions of nature.
In this talk first I will state the problem of Physics at the proton and neutron drip lines in general terms of understanding the structure of the matter. Then I will specialize on Nuclear Physics theoretical issues.
A "roadmap" for future research will be suggested on the basis of the present understanding of unbound nuclei, resonance and threshold phenomena and of few- and many-body problems of strongly interacting systems. The project involves an understanding of certain theoretical aspects of the nuclear interaction which can be only deduced from experiments with unstable beams of very low energy.
The key importance of the Isolde facility activity in this respect will be stressed.

Primary author: Dr BONACCORSO, Angela (INFN-PISA)

Presenter: Dr BONACCORSO, Angela (INFN-PISA)

Session Classification: Physics at the proton and neutron drip lines

Track Classification: Physics at the proton and neutron drip lines