



Contribution ID: 13

Type: **not specified**

Nuclear Physics: Nuclear Physics in the era of Radioactive Ion Beams

Friday, 23 October 2015 11:30 (1 hour)

With the advent of radioactive ion beams, the study of nuclei has received a lot of renewed attention in the past two decades. Several facilities have been built or are being built for the investigation of various characteristics of nuclei under extreme neutron-to-proton ratios. Substantial progress has been made in the last decades in the understanding of stable nuclei and those close to the line of stability. However, the limits of nuclear stability should still be discovered as one moves towards the medium and heavy nuclei, and the underlying forces governing these complicated many-body systems need to be better understood. Some of the nuclear characteristics are well described by the single-particle picture of nuclei and some others by the collective motions of nucleons inside the nuclei. In this lecture, a short overview of some open questions in nuclear physics will be given along with long-range plans of the community on how to move forward.

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