

# Nuclear Structure and Correlations: From Stable to Unstable Nuclei

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**Time: May 8, 2018 (Tuesday), 10 am**

**Venue: Room 513, Main Building**

## **Abstract:**

Nuclear Physics aims at understanding the fundamental properties of matter and the origin of the universe. The availability of short-lived nuclei produced at the radioactive-isotope beam (RIB) facilities worldwide in recent years has led to numerous discoveries of new phenomena in exotic nuclei, such as emergence of new magic numbers, neutron halos and skin. To understand these novel features, it is essential to obtain detailed knowledge of correlations between nucleons. In this talk, I will present HKU experimental programs at the world's leading RIB facilities including RIBF/RIKEN (Japan) and NSCL/MSU (United States) to investigate new magicity of exotic nuclei and nucleon correlations. I will also discuss about the detection array projects at HKU.

## **MPhil/PhD/Postdoc positions in Nuclear Physics at HKU:**

MPhil/PhD/Postdoc positions are open in the Experimental Nuclear physics Group at HKU. The topics are dedicated to the structure studies of exotic nuclei using in-gamma spectroscopy and direct-reaction technique. The experiments will be performed at RIBF/RIKEN (Japan) with the world's most intense radioactive beams. In addition, candidates will participate in the construction project of detector arrays at HKU with international collaborations. For enquiry, please contact Dr. Jenny Lee ([jleehc@hku.hk](mailto:jleehc@hku.hk)).

HKU Group webpage: <http://www.physics.hku.hk/~nuclear/>

