

## Precision measurement of deeply bound pionic Sn atoms in RIBF

*Thursday, 18 September 2014 14:00 (30 minutes)*

We report results from our recent precision measurement of pionic Sn atoms in RIBF. The presentation will include results from our pilot run in 2010 and our first production series of measurement in June 2014. We are presently preparing for a simultaneous measurement of 1s and 2s pionic states in  $^{121}\text{Sn}$  atom. The measurement is aiming at first measurement of 2s pionic state in Sn atom and will benefit in improving the systematic errors arising in the absolute energy scales. The results will improve the precision of the deduced quantities of chiral condensate at the normal nuclear density.

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