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# Status of the SAMURAI12 experiment preparation

*Monday, 7 September 2015 11:30 (15 minutes)*

The NP1206-SAMURAI12 experiment aims to provide a quantitative study of the clustering aspects in neutron-rich Beryllium isotopes 10,12,14Be by use of cluster quasi-free reactions in inverse kinematics using a solid proton target. Cluster spectroscopic factors and internal momentum distribution will be extracted from (p,pa) and (p,p6He) quasi-free scattering reactions. Besides this goal, multineutron systems will also be studied using the same setup. The detection system comprises the solid hydrogen target and proton detectors of the ESPRI setup in a modified configuration. Clusters will be detected with SAMURAI and Si-CsI telescopes at larger angles. Residues will be detected by SAMURAI using FDC2 and Hodoscopes. A status of the preparation will be presented.

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