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the nuclei close to or at the drip-line; 1.1. Motivations

1.2. Resonances of the light neutron-rich ${}^6\text{He}$ halo nucleus
1.3. Study of the shell effect associated to $N=16$; 2. Spectroscopy of ${}^{24}\text{O}$ using the (p,p') reaction; 2.1. Experimental set-up and kinematics; 2.2. Particle identification; 3. The analysis of the Ex spectra; Perspectives;

Acknowledgments; References

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Spectrometer T. Uesaka, S. Michimasa, H. Tokieda, S. Shimoura, S. Ota, Y. Sasamoto, H. Miya, S. Kawase, Y. Kikuchi, K. Kisamori, M. Takaki, H. Matsubara, M. Dozono, S. Noji, K. Miki, K. Yako, H. Sakai, H. Takeda, D. Kameda, T. Ohnishi, Y. Yanagisawa, T. Kubo, H. Baba, T. Kawabata, P. Roussel-Chomaz, M. Sasano and G. P. A. Berg
1. High-resolution ion-optical analysis of RI-beams; 2. SHARAQ spectrometer and Cathode Read-out Drift Chamber; 3. Dispersion matching of secondary beam; 4. Physics cases; 5. Summary; Acknowledgements
References

Sommario/riassunto

The book contains the papers presented in the French-Japan Symposium on Nuclear Structure Problems, held in January 2011 at RIKEN Wako Campus with 100 participants. Based on the long history of collaboration between France and Japan in the field of nuclear physics, various problems in recent and future studies are discussed. Emphasis is on the structure of nuclei far from the stability, reactions involving stable and unstable nuclei, nuclear processes and properties of astrophysical interest, synthesis of super-heavy elements, and instrumentation and accelerator projects.
