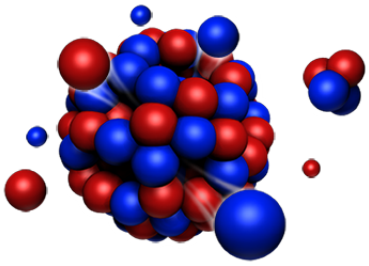

Contribution ID: **20** Type: **Poster**

Current Status of AMATERAS - a Cold-Neutron Disk-Chopper Spectrometer -

Wednesday 16 October 2019 13:00 (2 hours)

AMATERAS is a cold-neutron disk-chopper spectrometer installed at BL14 port of the Materials & Life Science Experimental Facility (MLF) at J-PARC [1]. AMATERAS is designed to carry out inelastic and quasielastic neutron scattering experiments in the range from cold to sub-thermal neutron energy with high intensity and fine and flexible energy resolution.

AMATERAS started its operation from May 2009 and was opened for the user program from December 2009. Up to now, experiments of more than 160 proposals have been carried out, which resulted in more than 50 papers, 15 theses and 11 press releases. Along with performing a user program, we are continually maintaining and improving the performance of the spectrometer. During the operation, we had have number of technical problems, which we have overcome or are trying to do so.

In this presentation, based on our experience of 10 years of operation of the spectrometer, we will show the current status, issues and future plans of AMATERAS.

[1] K. Nakajima, S. Ohira-Kawamura, T. Kikuchi, M. Nakamura, R. Kajimoto, Y. Inamura, N. Takahashi, K. Aizawa, K. Suzuya, K. Shibata, T. Nakatani, K. Soyama, R. Maruyama, H. Tanaka, W. Kambara, T. Iwahashi, Y. Itoh, T. Osakabe, S. Wakimoto, K. Kakurai, F. Maekawa, M. Harada, K. Oikawa, R. E. Lechner, F. Mezei, and M. Arai, J. Phys. Soc. Jpn. 80, SB028 (2011).

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Session Classification: Poster