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Inelastic and quasi-elastic neutron scattering spectrometers in J-PARC

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Abstract

J-PARC, Japan Proton Accelerator Research Complex provides short pulse proton beam at a repetition rate 25 Hz and the maximum power is expected to be 1 MW. Materials and Life Science Experimental Facility (MLF) has 23 neutron beam ports and 21 instruments have already been operated or under construction / commissioning. There are 6 inelastic / quasi-elastic neutron scattering spectrometers and the complementary use of these spectrometers will open new insight for life science.

Keywords: Inelastic neutron scattering, quasi-elastic neutron scattering, dynamical behavior, chopper spectrometer, backscattering spectrometer, neutron spin echo spectrometer

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