

Progress Status of New T0 Chopper System at J-PARC MLF

Wednesday, 29 November 2017 17:46 (6 minutes)

Materials and Life Science Experimental Facility (MLF) at J-PARC is a pulsed neutron facility. The accelerators have delivered a proton beam at 25 pps to a mercury neutron producing target. MLF has over 20 instruments and over 50 neutron choppers.

Neutron Choppers are important devices that remove unwanted energy components from the pulsed neutron beam. We have been improving durability and performance by developing a newly-designed T0 chopper.

We reported the status of our new T0 chopper in the last DENIM. After that, we have been testing the prototype T0 chopper. We succeeded in the 100Hz rotation test of that. We are currently improving vibration, cooling and synchronization of that chopper.

In the presentation we will show the current status of new T0 chopper, and share our experience.

Formal Invitation Letter Required

No

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Session Classification: Nibbles - Poster, Sponsors DENIM Challenge