

The status of CSNS neutron choppers development

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China Spallation Neutron Source (CSNS) is one of the major national scientific projects under construction in China. Totally Two T0 choppers and seven disk choppers are needed in CSNS first three neutron instruments, all these choppers were self-designed and fabricated in China, and they were installed on the neutron beam lines in year 2017. For the neutron choppers control system, several choppers for one neutron instrument are controlled in one control cabinet, which reduces the cost and spaces. The commissioning of these chopper's control was completed in June of year 2017. The mechanical vibration monitoring and analysis system of neutron chopper is also constructed and the initial mechanical vibration results were acquired, which can be used to evaluate the health of neutron choppers and to guide the improvement for next generation neutron chopper's mechanical design.

Now all choppers are ready for the first neutron beam in September of year 2017.

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