

How to reduce the vibration of neutron choppers

Mechanical vibration poses a substantial risk to the chopper's longevity. By effectively controlling vibrations, maintenance intervals can be increased, and the service life of the chopper can be extended. This report analyzes the causes of chopper vibration, explores methods to mitigate it, and proposes measures to reduce vibrations from multiple perspectives. These measures have been successfully implemented in the design and operation of the CSNS chopper, yielding positive results.

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