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Beam commissioning and operation reliability of the CSNS accelerator

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The China Spallation Neutron Source (CSNS) accelerator consists of an 80MeV H- linac, a 1.6GeV Rapid Cycling Synchrotron and two beam transport lines. The designed proton beam power is 100kW in Phase-I. CSNS project has been passed national acceptance in August 2018. From September 2018 to June 2019, CSNS successfully completed its first annual open run of user experiments and the beam power has been increased from 10kW to 50 kW step by step. In this presentation, the accelerator beam commissioning and operation reliability will be covered.

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