

## Design of control network and survey for the CSNS

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China Spallation Neutron Source(CSNS) mainly consists of an H- linac about 197m in length, a proton rapid cycling synchrotron(RCS) about 228m in circumference, the linac to RCS beam transport (LRBT) about 40m in length, and the RCS to target transport(RTBT) about 144m in length. It is designed to accelerate proton beam pulses striking a solid metal target to produce spallation neutrons. The construction of CSNS is in progress. The overall arrangement of the control network is presented. The control network of CSNS is classified into two types: the primary network and the secondary network. The primary network is used for the layout of buildings and devices and to provide high accuracy control for the secondary network which offers a reference for installing, locating and adjusting the accelerator devices. The instruments and the methods of the horizontal and vertical measurements are also described.

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