

**SPRING-8 BEAMLIN CONTROL SYSTEM**

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Beamline control system is designed to achieve the independent tuning of insertion devices by beamline experimental users. The system is designed adopting the control framework of SPRING-8 storage ring which is built with so-called Standard Model concept. The VMEbus is used as the front-end control system and UNIX workstations are used as the operator consoles. The beamline computer systems are connected to the FDDI backbone network sharing with accelerator control systems. The control software is designed based on the event-driven client/server scheme. The remote procedure call (RPC) is used for communication between framework software over the network. Beamline users computers communicate with the control framework either serial line or socket on Ethernet. The beamline network securities are protected by introducing firewall systems to the beamline users network, which realizes both safety equipment control at high level and data transfer from on-site data taking machine to off-site computers via network.