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Backup systems for the reliability of the SPring-8 accelerators

It is important for accelerator reliability, especially of public facilities like light sources or medical accelerators, not only to eliminate machine down but also to shorten down time. Moreover, at the SPring-8 the top-up operation, where the beam injection to the storage ring is continuing during user time to keep the stored current constant, is going on. Since the users of the SPring-8 strongly require the stability of the source intensity, i.e. the stored current, the reliability of the injector becomes more essential to the stable operation of SPring-8 storage ring. Hence we prepare the backup systems for the accelerators as much as possible. For example, in order to keep a top-up operation, we have installed an additional electron gun system in the linac. We review the backup systems of the SPring-8 accelerators prepared for improving the availability of the injector as well as for reducing the down time of the storage ring.

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