

WAO'18: Workshop on Accelerator Operations



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Necessity of Beamline Diagnostics Pre-Check

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Accelerators and beam transport systems typically contain numerous beamline diagnostics to measure beam particles distributions, beam emittance, beam energy, to monitor beamline vacuum and beam loss etc. As with any aging beamline system, there are legacy diagnostics that are still effective, but replacements are not essential until inevitable. It was observed that diagnostics, including legacy and other diagnostics can effects the beam production time if not thoroughly evaluated prior to use. To mitigate beam down time, it becomes necessary to pre-check the devices (insertion movement, data collection, beamline vacuum etc.) during any maintenance period. Here we present several experimental examples for demonstration of beamline diagnostics pre-checks to reduce adverse impacts on production time.

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