MT25 Conference 2017 - Timetable, Abstracts, Orals and Posters



Contribution ID: 1106

Type: Poster Presentation of 1h45m

Injection control by neural network approach for Pulse-magnet of Taiwan Light Source

Tuesday 29 August 2017 13:15 (1h 45m)

Top-up operation has been started since many years ago at Taiwan Light Source Storage Ring (TLS-SR). To realize the operation of the ring by top-up injection mode, a coherent oscillation of the stored beam is one of serious problem. This phenomena is exited in every injection period due to error in the injection pulse-magnets. For this operation it is important to reduce the beam injections should not excite the oscillation of stored beams. Artificial neural network (ANN) technology was used to analyze and optimize the injection pulse-magnets parameters of the storage ring. The results of this research are discussed in this study.

Submitters Country

Taiwan

Authors: Mr CHEN, HUNG-CHIAO; KUO, Cheng-Ying (NSRRC); CHEN, Hsin-Hui; KUO, Chang-Hor **Presenter:** KUO, Cheng-Ying (NSRRC)

Session Classification: Tue-Af-Po2.12

Track Classification: H3 - Other Associated Technologies