Contribution ID: **426**   Type: **Poster**

Design Optimization for 2kA, 2MeV Diode Injector

Wednesday 21 June 2017 13:30 (1h 30m)

The performance of induction accelerator relies greatly on the design of the diode injector. By using TRAK (ray tracing code) and AMBER (slice PIC code), we designed a 2KA/2MeV diode injector and beam transportation from position of cathode to accelerator exit. We will present some design optimization strategies for diode injector and simulation results from TRAK and AMBER, particle loading and different capabilities between two codes will also be discussed.

Authors: CHEN , Yu-Jiuan; ELLSWORTH, Jennifer; WU, Yuan Hui

Presenter: WU, Yuan Hui

Session Classification: Poster session III - Particle Beam and Accelerator Technologies

Track Classification: Particle Beam and Accelerator Technologies