Contribution ID: **44**   Type: **not specified**

TAC-SASE FEL Facility Project

Friday 24 June 2011 17:20 (20 minutes)

We study start-to-end simulations of the proposed TAC SASE FEL facility. Astra Code simulates electron gun, including space charge effect while Elegant Code simulates to track particle distribution from the accelerator modules through the entrance of the undulator. Elegant Code includes weak field but does not include space charge effects. Undulator optimization is managed by Genesis 1.3. In this study, tentative electron beam and laser parameters of TAC SASE FEL facility projects are given.

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Session Classification: Contributed Talks

Track Classification: Particle Factories, Accelerator Physics and future TeV scale colliders