

【포스터 : 플라즈마02】

Optimization of the Parameters for 3D Simulation in Free-Electron Laser

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We optimize the parameters of wiggler in free-electron laser and investigate the effects of the transverse mode competition, the energy spread and the emittance of the electron beam by using the 3D simulation code which we have developed. And we optimize the initial bunch shape from comparing the emitted field amplitude and optical pulse shapes for various bunch length.