

GFA and SwissFEL Accelerator Seminar

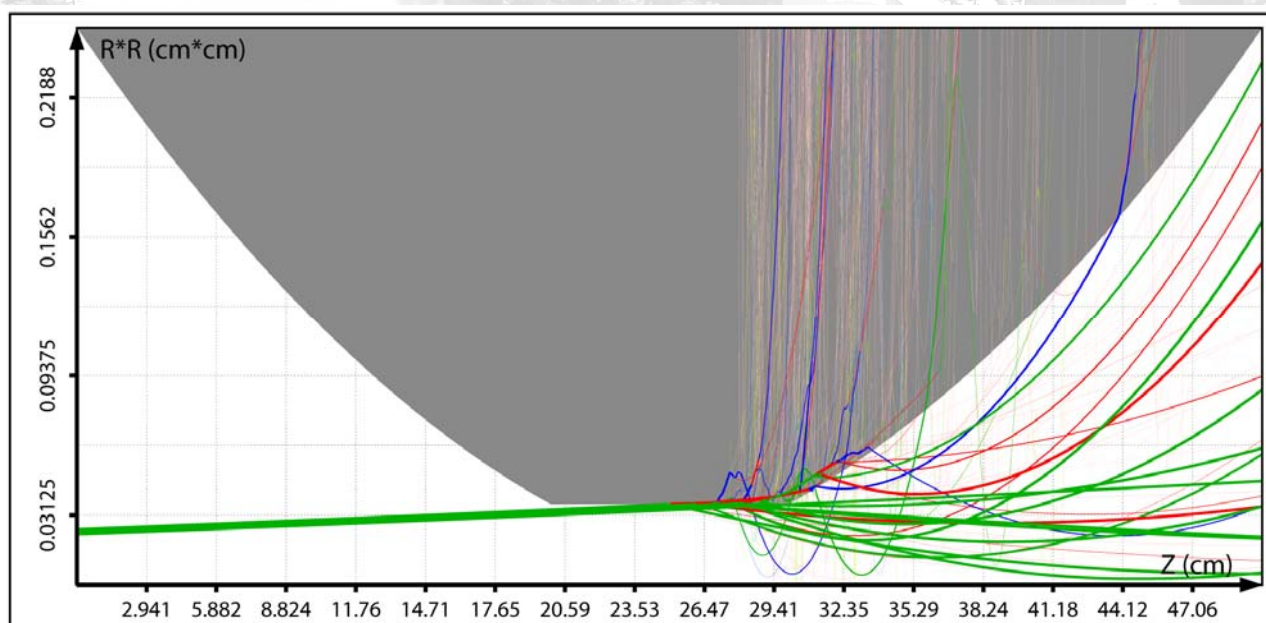
Post-Linac collimation systems for the European XFEL and for the FLASH facility

Thursday, 15 July 2010, 10.00 h, WBGB/019

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The post-linac collimation system of SASE FEL facility must protect the undulator modules from damage which can be made by mis-steered and off-energy beams in the case of machine failure. During routine operations it should remove with high efficiency off-momentum and large amplitude halo particles, which could be lost inside undulator modules and become a source of radiation-induced demagnetization of the undulator permanent magnets. In this talk designs of the collimation systems of the European XFEL and FLASH Facilities will be presented and operational experience with the FLASH collimation system will be discussed.



Collimator modelling: impinging electron beam, scattered electrons and secondary particles.