



ACCELERATOR SEMINAR

Dr. Ji Qiang

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Thursday, 18. July 2019 at 4 pm

KBW Lecture Hall

Planckstraße 1, 64291 Darmstadt

Modeling and Application of High Intensity/High Brightness Beams

The space-charge dominated high intensity, high brightness charged particle beam provides a great tool for scientific discovery and industrial application. In this talk, I will introduce some activities associated with the study of high intensity, high brightness beams at Lawrence Berkeley National Laboratory. I will discuss about some computational methods used in modeling those high intensity beams and then present two application examples: one is the recirculating superconducting proton linac and the other is the space-charge driven envelope instability in linear accelerators.



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