



M. Dienes, M. Month, S. Turner (Eds.)

Frontiers of Particle Beams: Intensity Limitations

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This is the proceedings of the fourth school in a series of specialized courses organized by CERN's CAS and the American USPAS. It deals with intensity limitations. The contribution thoroughly edited for this publication fall into the following categories: self and environmental fields - coherent instabilities and their simulation - beam-beam interaction - other multi-particle effects - beam source limitations - engineering limitations. This exposition of the inner working of high-intensity particle beams addresses particle physicists as well as those that commission new machines. The lecturers were chosen as being at the forefront of latest developments in this field.

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