



The CERN Accelerator School

in collaboration with the Faculty of Physics at Sofia University is organising a topical course on

INTENSITY LIMITATIONS IN HADRON BEAMS

BOROVETS, BULGARIA

15 - 27 June 2025

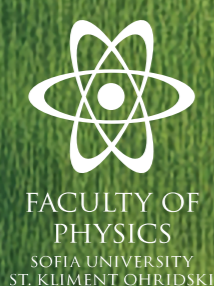
This course provides a comprehensive overview of the interaction of beams with the surrounding machine elements, touching on wakefields and beam coupling impedances, high-intensity instabilities, space charge and further collective effects.

The course will equally provide a survey of the different limitations that high-intensity hadron beams encounter in both

linear and circular accelerators, as well as an understanding of specific intensity limitations for diverse applications like neutron sources, radioactive ion beams, neutrino factories and muon colliders, hadron colliders, and the application of accelerators for energy production.

Case studies complement the lectures on different effects and possible mitigations.

Location: Hotel Rila Borovets



FACULTY OF
PHYSICS
SOFIA UNIVERSITY
ST. KLIMENT OHRIDSKI



Contact: CERN Accelerator School
CH - 1211 Geneva 23
cas.web.cern.ch
Accelerator.school@cern.ch

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