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Título puesto: Computation of beam instability risks of ALBA-II

Curso: 2026/27

División: Aceleradores

Descripción del proyecto:

Computation of the electromagnetic interaction (quantified by the beam coupling impedance) of the beam with the surrounding vacuum chambers of the new project ALBA-II with a dedicated software package. Computation of the instability excitation rates of the beam which are driven by the coupling impedance.

Perfil del estudiante:

- Very good knowledge in electrodynamics, analytical calculation, in particular Fourier transforms and some experience with physics computations on computers would be useful.

Tutor: Thomas Günzel

Responsable División: Francis Pérez