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Injection and Extraction

Saturday 28 September 2024 11:05 (1 hour)

This lecture gives an overview of the beam injection and extraction principles for accelerators.

After a brief general introduction, it explains different methods of injecting the beam for hadron and lepton machines.

It describes single- and multi-turn hadron injection, charge-exchange H⁻ injection, then betatron and synchrotron injection for leptons.

For extraction, it presents single- and multi-turn extraction, as well as resonant extraction methods.

Finally, the requirements for linking several accelerators by a transfer line are presented.

Presenter: ARRUTIA, Pablo (CERN)