



The CERN Accelerator School

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## Electromagnetic Theory

*Monday 10 March 2025 11:20 (1 hour)*

The lecture is a refresher at the level of high school and the first year of engineering school. It covers electrostatics (Coulomb force, electric field, potential energy and Gauss Law), magnetostatics (magnetic forces, Amperes law, magnetic moments, magnets), electric and magnetic induction (Faraday Law, Ampere-Maxwell Law), Maxwell equations in integral and differential forms and electromagnetic waves in vacuum.

**Presenter:** Dr SHREYBER, Irina