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Low-emittance ring magnets

Saturday 25 November 2023 12:00 (1 hour)

Low emittance rings are accelerator facilities of increasing importance nowadays. Both damping rings for linear colliders and storage rings of 4th generation light sources belong to this category. Magnets for these type of rings share demanding and specific features: high field strength, good field quality, narrow tolerance alignments. There are some particular magnets to which special attention will be given: permanent magnets, combined function magnets and longitudinally variable field dipoles. An overview of the largest ongoing low emittance rings will be done, with detailed explanation on the magnets.

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