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Tue-Mo-Po2.08-03 [56]: The New Magnet System for the East Area at CERN

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The East Area (EA) is a facility for experiments, beam tests and irradiation operated at the CERN Proton Synchrotron since over 55 years. The experimental area requires high availability, which has been increasingly jeopardized due to the age and reduced reliability of the installed components, in particular magnets and power supplies.

The CERN management has then decided to completely renovate this experimental area. The new system will feature a reduction of the power consumption by one order of magnitude obtained by operating the magnets in cycled mode instead of DC, and a better transmission and purity of the secondary beams thanks to a redesign of the beamlines.

The new EA magnet system consists of 12 different magnet designs with a total 58 magnets: 15 bending magnets, 31 quadrupoles and 12 correctors. This paper describes the design of all magnet types, as well as the status of manufacture and tests.

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