Contribution ID: **30** Type: **not specified**

Overview permanent magnets at accelerator facilities

Monday 6 February 2023 14:20 (20 minutes)

Permanent magnets are state-of-the-art magnetic sources for undulators and wigglers in current synchrotron light sources. They combine compact magnetic energy sources with precision and stable magnetic parameters. In combination with the increasing productions efficiency and cost reduction of those PM blocks, they are a more and more interesting technology for accelerator magnets in next generation synchrotron radiation sources. PM based accelerator magnet offer the opportunity for a more compact and stable magnetic lattice, as well as a drastic reduction in energy consumption. In this talk existing and upcoming accelerator projects with their magnet developments will be presented.

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Session Classification: Introduction