Virtual reality and particle accelerators

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For outreach

LEIR CERN

VR demonstration
System

HTC Vive tracking system [2]

Synchrotron 3D model

https://www.vive.com/eu/
### Global view

**Point of interest: bending magnet**

**Point of interest: experiment station**

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**Exploration**

A key element in the synchrotron’s operation are bending magnets that bend the trajectory of the beam, allowing for a curved path. These magnets are powered by power supplies. They produce a strong magnetic field, enabling the control of the beam. Another function of the magnets is to optimize the distribution of the synchrotron light, ensuring that the generated light is used efficiently for experiments.
Scenario game

Teleportation

To-do list

Turn on the synchrotron

- Switch on the ion source
- Switch on the booster ring
- Ramp up the magnets
- Switch on the magnets
- Activate RF Cavity
- Remove block

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THANK YOU!

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