LEAPS INNOVATION

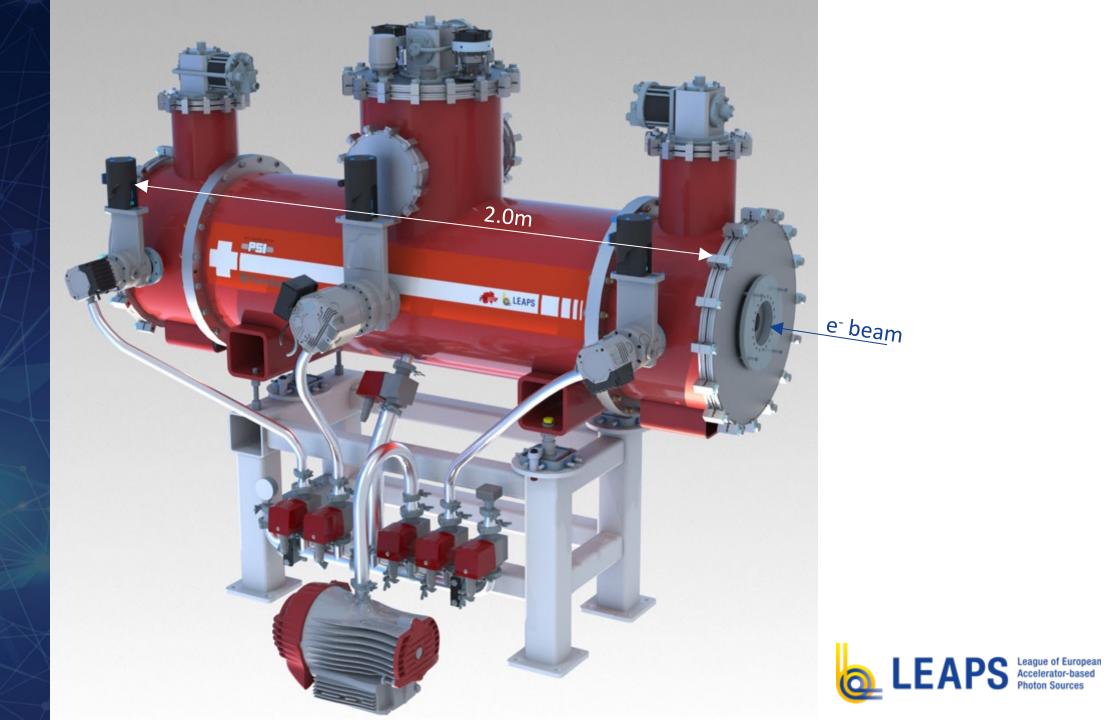
LEAPS-INNOV

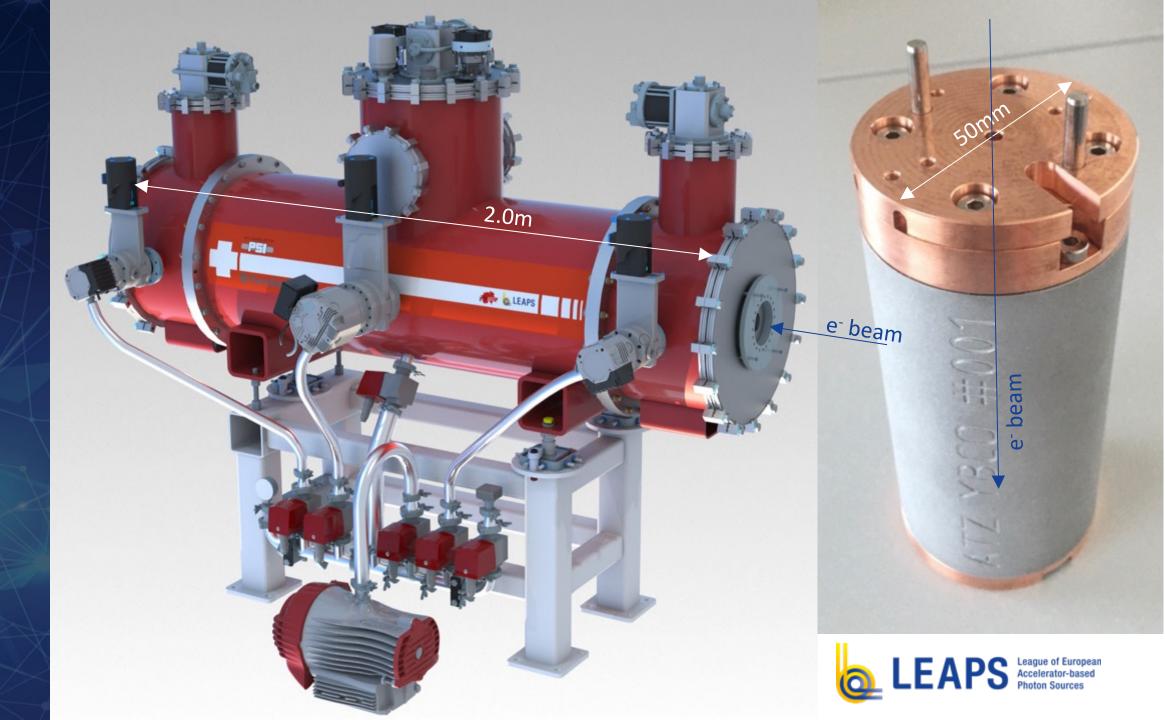
Development in undulator technology

High Temperature Superconducting Undulators May 9th, 2023

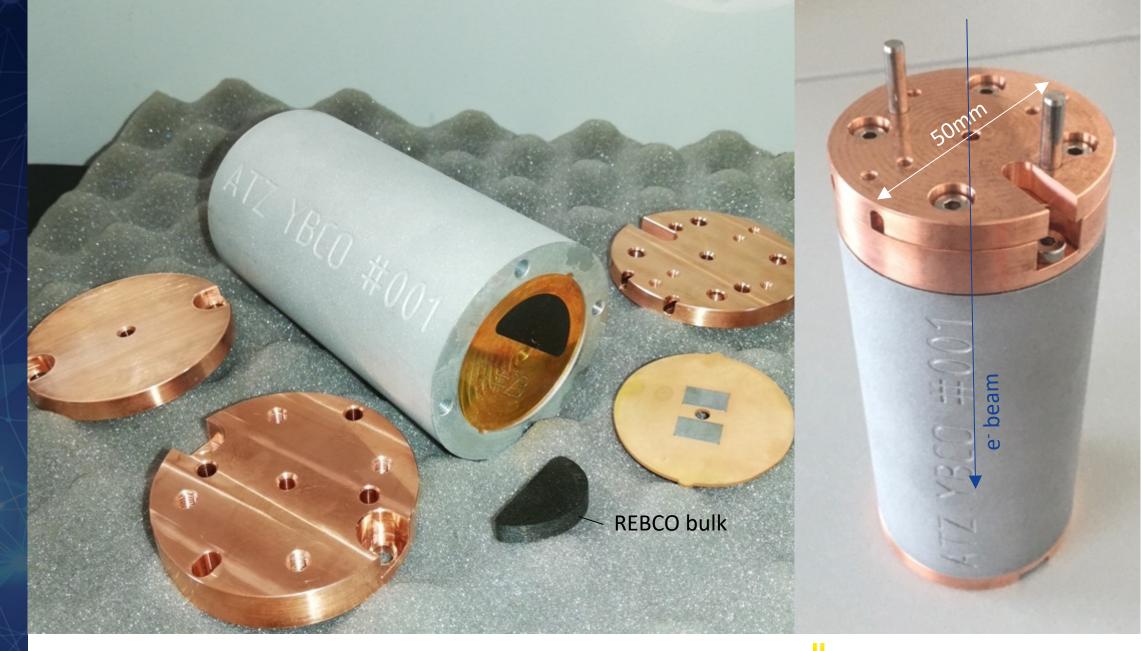
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101004728

















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During this project we demonstrated for the first time that ReBCO crystals can be precisely machined with LMJ (1) or EDM (2)

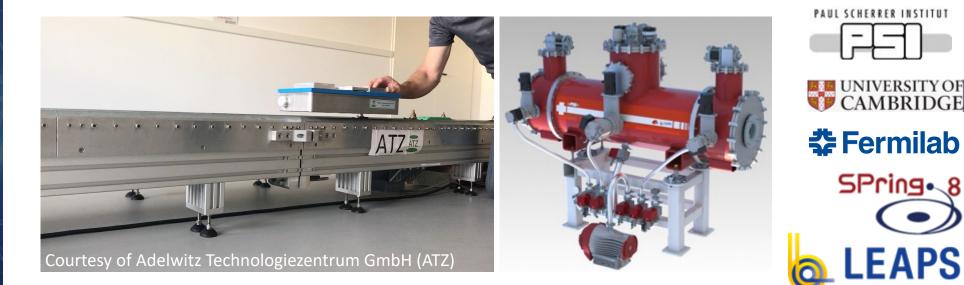








- It goes beyond the status of the art undulator technology
 - Promises higher performance than Cryogenics Permanent Magnet Undulators (CPMU) & Superconducting NbTi Undulators, both commercially available respectively for instance by Hitachi & Bilfinger Noell
 - and promises as well lower production costs with respect to CPMU
- A new application of HTS REBCO bulks beyond magnetic levitation







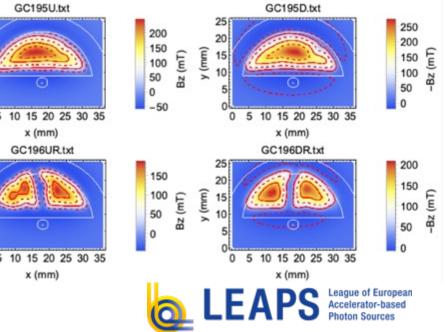
Recent achievements

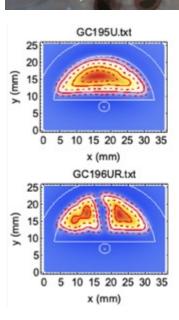


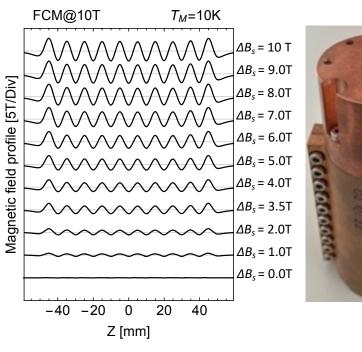


Recent achievements











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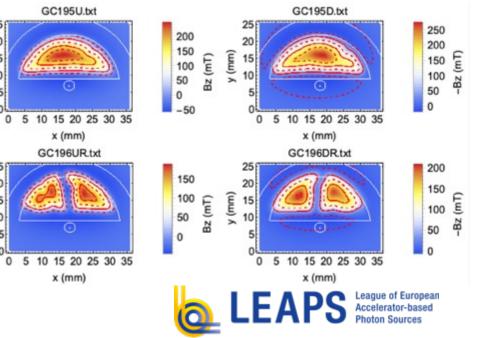
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y (mm)

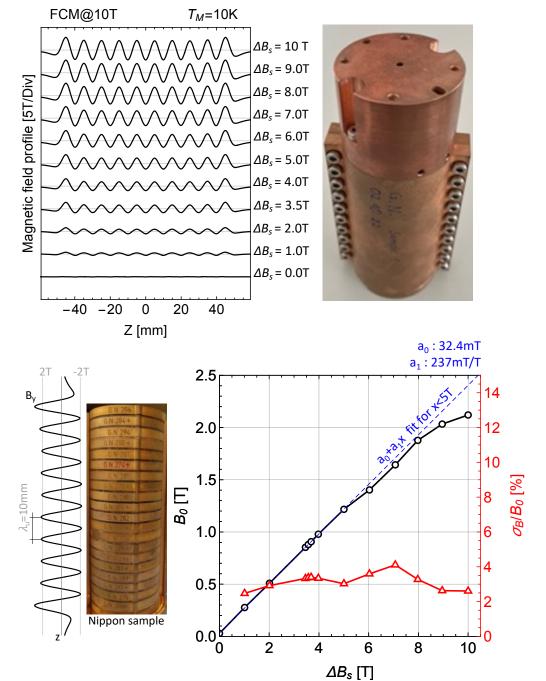
y (mm)

Recent achievements









Recent achievements



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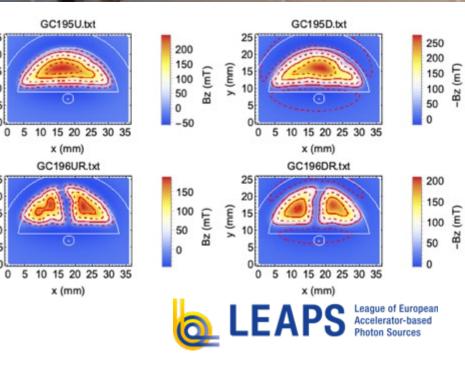
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y (mm)

y (mm)



-Bz (mT)