



HFM
High Field Magnets

RD2 Introduction

A. Ballarino and A. Kario

HFM Annual Meeting 2023

30 Oct – 2 Nov 2023

CERN



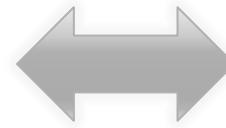
HFM
High Field Magnets

RD2

- Development of **HTS conductor, HTS magnets and associated technology** for future accelerators
- LDG Report: produce fields in the range of **20 T and beyond** (HTS as enabling technology)
- Focus on **REBCO conductor**, with **R&D on iron based superconducting wire**. **REBCO tape** is a challenge, and **cables still have to be developed**
- **Magnets**: hybrids, full HTS, 4.5 K and higher temperatures
- **Sustainability** and synergy with **societal applications**

Laboratories and Activities

Superconducting material studies



Magnet technology



R&D and Production of REBCO Tape



UNIVERSITY OF TWENTE

Superconducting material studies and qualification



R&D and Production of Iron Based Superconductors



Superconducting material studies and qualification

Coming soon

Coming soon



HFM
High Field Magnets

10/30/2023