



# **DFX Conceptual Design review**

## **Introduction to open topic**

Amalia Ballarino for the WP6a



CERN, 12/02/2019

# Introductory remarks

- DFX design: **weekly meeting** (chaired by Y. Yang) as from Nov. 2018. Participants: Y. Yang, W. Bailey, A. Ballarino, R. Betemps, S. Claudet, J. Fleiter, I. Falorio, V. Parma, A. Perin, D. Perini
- **DFX vertical concept** elaborated in July 2018, after in-depth study of (two) other options, and adopted after in-depth evaluation of pro and cons. At the time, the MgB<sub>2</sub> to Nb-Ti splices have been taken out from the DFX (they are now part of the SC Link, with only Nb-Ti cables entering the DFX)

# Introductory remarks

- Boundary conditions for the **electrical termination of SC Link** (diameter and length for splices) were defined in July 2018, and then confirmed via validation mock-up(s)



- **Cryogenic operating conditions** were questioned during the review meeting

- **DFX vertical concept** has been maintained, and discussed **cryogenic requirements incorporated in the same concept** (last week, showing some flexibility in the design)