

Annual meeting of the Swiss Physical Society 2018



Contribution ID: 212

Type: **Talk**

[323] The PSI Canted-Cosine-Theta Technology Program for FCC

Thursday, August 30, 2018 3:00 PM (15 minutes)

We present the status of the Canted-Cosine-Theta (CCT) design of an FCC-hh / HE-LHC dipole, its magnetic and mechanical properties, as well as its protectability. We will develop on the strengths and challenges of this design and lay out the R&D plan at Paul Scherrer Institute to address the challenges, together with first practical results.

Primary authors: AUCHMANN, Bernhard (CERN); BROUWER, Lucas (Lawrence Berkeley National Laboratory); CASPI, Shlomo; Mr FELDER, Roland (Paul Scherrer Institut); GABARD, Alexander (Paul Scherrer Institute); GAO, Jiani (PSI - Paul Scherrer Institut); Dr GOLD, Barbara (PSI/ETHZ); MONTENERO, Giuseppe (PSI); SANFILIPPO, stephane (Paul Scherrer Institut); Mr SIDOROV, Serguei (Paul Scherrer Institut); TERVOORT, Theo (ETH Zurich)

Presenter: AUCHMANN, Bernhard (CERN)

Session Classification: Nuclear, Particle- & Astrophysics (TASK)

Track Classification: Nuclear, Particle- and Astrophysics (TASK)