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Toward the production of the first 1-m long Canted-Cosine-Theta (CCT) model magnet at PSI

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The Canted-Cosine-Theta (CCT) PSI magnet program aims at demonstrating that the CCT technology has the potential for the development of 16 T dipole magnets, required for the “near” future of circular colliders. The first step in this direction is the implementation of a Nb₃Sn 1-m-long, 2-layer CCT single-aperture dipole model, referred to as Canted Dipole One (CD1) which is designed to achieve a peak field in the bore of ~11 T. The in-house assembly of CD1 requires to setup at PSI a number of fabrication steps. In this poster, the authors review the status of advancement of the production process of Nb₃Sn CCT model magnets at PSI.

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