

Status of high field magnet technology for CEPC-SPPC

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IHEP (Beijing, China) is pursuing R&D of high field accelerator magnet technology for recently proposed CEPC-SPPC project, which will need thousands of all-HTS 12T (SPPC) to 24T (SPPC Upgrade) accelerator magnets in the next 20~40 years. A long-term R&D plan has been made aiming to realize the magnets in time. The conceptual design study of the all-HTS (Fe-based superconductor) & Nb₃Sn+HTS 12T magnets and the development status of the Nb₃Sn & Nb₃Sn+HTS model magnets will be presented and discussed.

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