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Mon-Mo-Po1.08-02 [89]: The Cryogenic Thermosiphon for the CEPC Solenoid

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Under the construction schedule of the next generation of Circular Electron-Positron Collider building in China, the cryogenic conception design of the detector magnet is completed, and some related preliminary research works have come out good results as well. A network of LHe tubes in the thermosiphon circulating mode, which is attached to the external coil wall, is used to cool the coil. The thermosiphon loop has been simulated with different working media, tube lengths and diameters, heatloads. The results can help to design the thermosiphon properly for different working condition of the solenoid.

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