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## **M1Po2C-09 [42]: 2-layer Cable-in-Conduit for hybrid-coil magnets**

*Monday, July 22, 2019 2:00 PM (2 hours)*

Recent results are reported in the development of 2-layer cable-in-conduit (CIC) that is designed for hybrid-coil magnets. The CIC preserves the full performance of the individual wires, and can be formed into flared-end windings for dipoles into layer-wound toroids and solenoids for hybrid windings for tokamaks. The structure of the CIC windings is designed to accommodate winding and heat-treating sub-windings of Bi-2212, Nb<sub>3</sub>Sn, and NbTi separately and then assembling them and preloading in the magnet.

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