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M3Or4N-02: [Invited] Cryoresistive and superconductive aerospace main power transmission cables

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The Center for Cryogenic High-Efficiency Electrical Technologies for Aircraft (CHEETA) project and Hyper Tech Research Inc. are developing demonstrations of a cryogenically cooled, low to medium voltage, high amperage, and lightweight aerospace power cable. The research presented here includes the motivation behind these demonstrations, challenges for these demonstrations, demonstration designs, and results of some derisking tasks.

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