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Thu-Mo-Po4.13-11 [106]: A new design and exciting for HTS superconducting magnet of Maglev

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Superconducting Maglev is one of the hottest research directions for superconducting applications. The speed of superconducting Maglev on rail is much faster than conventional rail. And hence the superconducting Maglev is considered as a ultimate substitute for rail traffic. The superconducting magnet made by HTS coils is the core component for superconducting Maglev. This paper illustrates a new design for HTS superconducting magnet which has low attenuation rate (which is less than 5%/day), light weight and high-speed excitation. In addition to using persistent current switch controlled by heat to excite the magnet, a flux pump module is also set in the superconducting magnet.

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