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Development of highly saturated dipole magnets for the SAPT booster

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Eight highly saturated dipole magnets have been developed for the Shanghai Advanced Proton Therapy booster. The field reaches 1.77 T at the design current of 1200 A. The homogeneity of the integrated field is better than 0.001 within a good field region width of 100 mm. The integrated field consistency for the 8 dipole magnets is better than 0.003. The design and the measurement results for the dipole magnets are presented in this paper.

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