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Enhanced J_c OF Multi-layer $\text{YBa}_2\text{Cu}_3\text{O}_x$ Films ZHENYU ZUO, RULING MENG, TOM JOHANSEN, IRENE A. RUSAKOVA, ANDREI BAIKALOV, DUC PHAM, CHENG FEN, CHING-WU CHU, University of Houston — $\text{Nd}_{1/3}\text{Eu}_{1/3}\text{Gd}_{1/3}\text{Ba}_2\text{Cu}_3\text{O}_x$ (NEG)/YBCO multi-layer up to 6 layer films are made and enhanced J_c is achieved compared to pure YBCO film. The enhancement is observed over a wide range of temperatures. Possible reason for this enhancement is investigated. Magneto-optical imaging shows that these films have excellent macroscopic magnetic uniformity.

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