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Anna L Mazzucato* (alm24@psu.edu), McAllister Building, University Park, PA 16802, and **Xiaoming Wang** and **Dongjuan Niu**. *Boundary layer analysis for 3D plane-parallel channel flows.*

We study the boundary layer in a class of 3D plane-parallel channel flows using Prandtl-type effective equations for flow correctors. We establish optimal rates of convergence in the vanishing viscosity limit for various norms. (Received August 15, 2010)