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Tongou Yang* (toyang@math.ubc.ca), 1984 Mathematics Road, Vancouver, BC V6T 1Z2, Canada, and Jianhui Li (jli2266@wisc.edu), Van VleckHall, 480 Lincoln Drive, Madison, WI 53706-1325. Decoupling for mixed-homogeneous polynomials in \mathbb{R}^3 .

We prove decoupling inequalities for mixed-homogeneous bivariate polynomials. This is a three dimensional generalisation of previous results of Demeter and Yang (respectively), and partially answers a conjecture of Bourgain, Demeter and Kemp. (Received March 07, 2021)