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Velocity correlations in simulations and observations YUYU WANG, CHRISTOPHER ROONEY, HUME FELDMAN, Univ of Kansas, RICHARD WATKINS, Willamette University — We present an analysis of the two-point cosmic velocity correlation function. We calculate the correlations of the Cosmicflows catalogues and estimate the errors using the Millennium N-body simulations. We estimate the correlation coherence length, and combine the velocity correlation function expectations from linear theory to constrain the cosmological parameters Γ and β. Using the maximum likelihood method, we find a value of $\Gamma = 0.195^{+0.08}_{-0.045}$ (95% CL) that is consistent with the Planck results.

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