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Dispersion and Spectral weight analysis of “waterfall” structure in Pb doped Bi2212. QIANG WANG, ZHE SUN, ELI ROTENBERG, HELMUT BERGER, DANIEL DESSAU — Angle resolved photoemission spectroscopy (ARPES) is used to investigate the property of the “waterfall” structure in (Bi, Pb)₂Sr₂CaCu₂O₈. The dispersion analysis of the spectrum shows that there is not a “universal high energy scale” in this material. And the spectral weight analysis suggests that the matrix element and the inelastic scattering may have an important role in the formation of the waterfall structure.

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