LOW-LYING ZEROS OF A FAMILY OF AUTOMORPHIC *L*-FUNCTIONS

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ABSTRACT. In their paper titled "Low-lying zeros of families of *L*-functions," Iwaniec, Luo, and Sarnak calculated the distribution of low-lying zeros of families of modular *L*-functions in level aspect for test functions with support contained in (-2, 2). In this work, we have extended this result to thin (in the *p*-adic sense) subfamilies of these families, obtained by twisting lower-level modular forms by a character, and investigated what can be said about the support and the lower-order terms in the one-level density in this case.