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Mean Values of Product of Modular L-Functions

Let f be a newform of even weight k, level M and character ψ and let g be a newform of even weight l, level N and character η . We give a generalization of a theorem of Elliott, regarding the average values of Dirichlet L-functions, in the context of twisted product L-functions $L_{f,\chi}(s_0)\overline{L_{g,\chi}(s_0)}$ associated to f and g and Dirichlet characters χ .