# Rankin-Selberg $L$-functions on the critical line 


#### Abstract

Let $f$ and $g$ be two primitive (holomorphic or Maass) cusp forms of arbitrary level, character and weight resp. spectral parameter, and let $L(s, f \times g)$ be the associated Rankin-Selberg $L$-function. If we fix $g$ and let the weight resp. spectral parameter $\mu_{f}$ of $f$ vary, then for $s$ on the critical line, the estimate $L(s, f \times g)<_{s, g, \varepsilon} \mu_{f}^{\alpha+\varepsilon}$ with $\alpha=\frac{6-2 \theta}{7-4 \theta}$ is shown where $\theta \leq \frac{7}{64}$ is an admissible value for the Ramanujan-Petersson-conjecture.


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