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L-functions for $SO_n \times GL_k$. (English) Zbl 0684.22009
J. Reine Angew. Math. 405, 156-180 (1990).

We prove Langlands' conjecture for the standard representation of the groups $SO_{2n+1} \times GL_k$ and $SO_{2n} \times GL_k$ where $k < n$. We construct Rankin-Selberg integrals for these groups, prove their convergence, show that they are Euclidean and compute the unramified local integrals. These integrals are a natural generalization of the ones constructed for $SO_{2n+1} \times GL_n$ and $SO_{2n} \times GL_n$ by Gelbart and Piatetski-Shapiro.

Reviewer: [D.Ginzburg](#)

MSC:

- [22E55](#) Representations of Lie and linear algebraic groups over global fields and adèle rings
- [11F70](#) Representation-theoretic methods; automorphic representations over local and global fields
- [11R39](#) Langlands-Weil conjectures, nonabelian class field theory
- [11M06](#) $\zeta(s)$ and $L(s, \chi)$
- [11R42](#) Zeta functions and L -functions of number fields

Cited in **2** Reviews
Cited in **14** Documents

Keywords:

[connected reductive algebraic group](#); [automorphic cuspidal representation](#); [Eisenstein series](#); [Langlands' conjecture](#); [standard representation](#); [Rankin-Selberg integrals](#); [unramified local integrals](#)

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