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**Título:** On Central Critical Values Of The Degree Four L  
-Functions For  $GSp(4)$ : The Funda

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**Sinopsis**

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Some time ago, the first and third authors proposed two relative trace formulas to prove generalizations of Böcherer's conjecture on the central critical values of the degree four L-functions for  $GSp(4)$ , and proved the relevant fundamental lemmas. Recently, the first and second authors proposed an alternative third relative trace formula to approach the same problem and proved the relevant fundamental lemma. In this paper the authors extend the latter fundamental lemma and the first of the former fundamental lemmas to the full Hecke algebra. The fundamental lemma is an equality of two local relative orbital integrals. In order to show that they are equal, the authors compute them explicitly for certain bases of the Hecke algebra and deduce the matching.

Table of Contents

- !Introduction
- !Reduction formulas
- !Anisotropic Bessel orbital integral
- !Split Bessel and Novodvorsky orbital integrals
- !Rankin-Selberg orbital integral
- !Bibliography
- !Index