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Título: Invariant Representations Of $\text{GSp}(2)$ Under Tensor Product With a Quadratic Charac

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Sinopsis

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Let F be a number field or a p -adic field. The author introduces in Chapter 2 of this work two reductive rank one F -groups, \mathbf{H}_1 , \mathbf{H}_2 , which are twisted endoscopic groups of $\text{GSp}(2)$ with respect to a fixed quadratic character ϖ of the idèle class group of F if F is global, F^\wedge if F is local. When F is global, Langlands functoriality predicts that there exists a canonical lifting of the automorphic representations of \mathbf{H}_1 , \mathbf{H}_2 to those of $\text{GSp}(2)$. In Chapter 4, the author establishes this lifting in terms of the Satake parameters which parameterize the automorphic representations. By means of this lifting he provides a classification of the discrete spectrum automorphic representations of $\text{GSp}(2)$ which are invariant under tensor product with ϖ .

Table of Contents

Introduction

ϖ -endoscopy for $\text{GSp}(2)$

The trace formula

Global lifting

The local picture

Appendix A. Summary of global lifting

Appendix B. Fundamental lemma

Bibliography

List of symbols

Index