

保型形式, 保型表現, L 関数の研究

Research for automorphic forms, automorphic representations and L -functions

RIMS 共同研究 (公開型) 報告集

2026/1/5 ~ 2026/1/9

研究代表者 軍司 圭一 (Keiichi Gunji)

目次

1.	p 通常的でないカスプ形式と肥田変形族に付随した二変数 p 進 RANKIN SELBERG L 級数	1
	福永 健吾 (Kengo Fukunaga) 国立台湾大学 (National Taiwan U.)	
2.	FROM RESONANCE TO HYPOTHESIS S: A BRIEF SURVEY	11
	Yangbo Ye The University of Iowa	
3.	SCHUR EISENSTEIN SERIES AND QUASIMODULAR FORMS	19
	Jinbo Yu 名古屋大学 (Nagoya U.)	
4.	Generalized modular equations and the singular values of Hauptmoduln	28
	富山 和樹 (Kazuki Tomiyama) 早稲田大学 (Waseda U.)	
5.	Numerical semigroups and the distribution of prime numbers	39
	小松 尚夫 (Takao Komatsu) Henan Academy of Sciences / 東京科学大学 (Institute of Science Tokyo)	
6.	レベル 2 の Fricke 群に対する Eisenstein 級数の臨界点について	52
	杉林 直樹 (Naoki Sugibayashi) 九州大学 (Kyushu U.)	
7.	Shalika functions on $GL_4(\mathbb{R})$	59
	石井 卓 (Taku Ishii) 成蹊大学 (Seikei U.)	
8.	CONSTRUCTION OF VECTOR-VALUED ADELIC AUTOMORPHIC FORMS	69
	Oliver Stein Ostbayerische Technische Hochschule Regensburg	

9.	A CONJECTURAL IDENTITY FOR THE RATIO OF PETERSSON NORMS OF DEGREE 2 SIEGEL CUSP FORMS AND ASSOCIATED HALF-INTEGRAL WEIGHT FORMS	84
	Abhishek Saha Queen Mary University of London	
10.	On Some Inadmissible Values of the Fourier Coefficients of Special Newforms with level 1 or 2	91
	後藤 新裕 (Akihiro Goto) 九州大学 (Kyushu U.)	
11.	Congruences and differential operators on modular forms	98
	武田 暢輝 (Nobuki Takeda) 京都大学 (Kyoto U.)	
12.	LATTICES OF TYPE A_n , D_n , E_n AND CODES	104
	比嘉 陸 (Riku Higa) 東京理科大学 (Tokyo U. Science)	
13.	A NOTE ON LARGE SUMS OF FOURIER COEFFICIENTS OF HOLOMORPHIC CUSP FORMS	112
	Naomi Tanabe Bowdoin College	
14.	On congruences arising from p -adic limits of Eisenstein series	124
	Siegfried Böcherer University of Mannheim	
15.	Double descent in unitary groups	131
	伊藤 望 (Nozomi Ito) 国立台湾大学 (National Taiwan U.)	
16.	Langlands correspondence for covering groups of algebraic tori	136
	中田 裕貴 (Yuki Nakata) 京都大学 (Kyoto U.)	
17.	On the local Langlands correspondence for depth zero supercuspidal representations ..	149
	藤井 天守 (Amoru Fujii) 東京大学 (U. Tokyo)	
18.	Smoothening strata and compactified Jacobians: a survey announcement in the Bass case	156
	Sungmun Cho POSTECH	
	Jungtaek Hong POSTECH	

19.	EXPLICIT FOURIER COEFFICIENTS OF THE EISENSTEIN SERIES AND THETA LIFT ON $SO(3, n+1)$	161
	Henry H. Kim University of Toronto / Korea Institute for Advanced Study 山内 卓也 (Takuya Yamauchi) 東北大学 (Tohoku U.)	
20.	HERMITIAN MODULAR FORMS AND ALGEBRAIC MODULAR FORMS ON $SO(6)$ WITH A COMMENT ON THETA SERIES	171
	伊吹山 知義 (Tomoyoshi Ibukiyama) 大阪大学 (Osaka U.)	
21.	Petersson norms of Jacobi-Eisenstein series and Gross-Kohnen-Zagier's formula	183
	水野 義紀 (Yoshinori Mizuno) 名古屋工業大学 (Nagoya Institute of Technology)	
22.	HYPERBOLIZATION OF AFFINE LIE ALGEBRAS	195
	Haowu Wang Wuhan University	
23.	ISOMORPHISM BETWEEN JACOBI FORMS OF INDEX D_{2n+1} AND ELLIPTIC MODULAR FORMS OF LEVEL 2	203
	林田 秀一 (Shuichi Hayashida) 上越教育大学 (Joetsu U. Education)	

2026 年 8 月発行

Published in August 2026

This is a report of research done at the Research Institute for Mathematical Sciences, an International Joint Usage/Research Center located in Kyoto University. The papers contained herein are in final form and will not be submitted for publication elsewhere.

e-ISSN 2760-7046