

22(5)

Explicit Reciprocity Law for Lubin-Tate Formal Groups

曹磊

北京大学数学系

收稿日期 2003-12-29 修回日期 网络版发布日期 2006-7-14 接受日期 2004-3-16

摘要 In this article, using Fontaine's $\Phi\Gamma$ -module theory, we give a new proof of Coleman's explicit reciprocity law, which generalizes that of Artin--Hasse, Iwasawa and Wiles, by giving a complete formula for the norm residue symbol on Lubin--Tate groups. The method used here is different from the classical ones and can be used to study the Iwasawa theory of crystalline representations.

关键词 [\\$\Phi\Gamma\\$-module](#) [Formal groups](#) [explicit reciprocity law](#) [Kummer map](#)

分类号 [11S31](#)

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Lei CAO

School of Mathematical Sciences, Peking University, Beijing 100871, P. R. China

Abstract In this article, using Fontaine's $\Phi\Gamma$ -module theory, we give a new proof of Coleman's explicit reciprocity law, which generalizes that of Artin--Hasse, Iwasawa and Wiles, by giving a complete formula for the norm residue symbol on Lubin--Tate groups. The method used here is different from the classical ones and can be used to study the Iwasawa theory of crystalline representations.

Key words [\\$\Phi\Gamma\\$-module](#) [Formal groups](#) [explicit reciprocity law](#) [Kummer map](#)

DOI: 10.1007/s10114-005-0663-9

通讯作者 曹磊 leicao@math.pku.edu.cn

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