Title:	Arithmetic Geometric aspects of modular groups
Authors:	Gupta, Titiksh (/jspui/browse?type=author&value=Gupta%2C+Titiksh)
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Abstract:	The aim of this THESIS is to highlight the major developments in the arithmetic-geometric aspects of the modular group. After covering geomet- ric aspects of Fuchsian groups, we study various variants of the Poincar´e polygon theorem. Arithmetic methods like Farey Symbols have been used to describe the subgroups of P SL(2, Z). Graph-theoretical approach has been used to study algorithm for generating all trivalent diagrams. Finally, we conclude by describing algorithms for testing membership of matrices in P SL(2, Z) by using the concept of Farey Symbols.
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