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On the Power Subgroups of the Extended Modular Group Γ

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Abstract: In this paper we describe the group structure of power subgroups Γ^m of the extended modular group Γ and the quotients to them. Then we give some relations between the power subgroups Γ^m, the commutator subgroups Γ' and Γ'' and also the information of interest about free normal subgroups of the extended modular group Γ.

Key Words: Extended Modular Group, Power Subgroup, Commutator Subgroup, Free Subgroup