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Sinopsis

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Given a prime p , a group is called residually p if the intersection of its p -power index normal subgroups is trivial. A group is called virtually residually p if it has a finite index subgroup which is residually p . It is well-known that finitely generated linear groups over fields of characteristic zero are virtually residually p for all but finitely many p . In particular, fundamental groups of hyperbolic 3 -manifolds are virtually residually p . It is also well-known that fundamental groups of 3 -manifolds are residually finite. In this paper the authors prove a common generalization of these results: every 3 -manifold group is virtually residually p for all but finitely many p . This gives evidence for the conjecture (Thurston) that fundamental groups of 3 -manifolds are linear groups.

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