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Título: 3-Manifold Groups Are Virtually Residually P

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Precio: \$1078.35

Editorial:

Año: 2013

Tema:

Edición: 1^a

Sinopsis

ISBN: 9780821888018

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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