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Nota di contenuto	<p>""Contents""; ""Preface""; ""Vanishing theorems on covering manifolds""; ""1. Introduction""; ""2. L 2 vanishing theorem for the half-kernel of a Dirac operator""; ""3. Complex manifolds. The L 2 analogue of the Andreotti-Grauert theorem""; ""4. Almost complex manifolds. An analogue of the Andreotti-Grauert theorem.""; ""5. Application to the representation theory""; ""6. Proof of the vanishing theorem for the half-kernel of a Dirac operator""; ""7. Proof of the Andreotti-Grauert-type theorem for almost complex manifolds""; ""8. Proof of the L 2 Andreotti-Grauert theorem"" ""9. The Lichnerowicz formula. Proof of Propositions 6.3 and 7.1""""10. Estimate of the metric Laplacian""; ""References""; ""The Sunada method""; ""Relative torsion for homotopy triangulations""; ""0. Introduction and statements of the results.""; ""1. Operators and complexes and the proof of the first four results.""; ""2. Anomalies for the relative torsion.""; ""3. References.""; ""Non-linear similarity and linear similarity are equivariant below dimension 6""; ""Massey products and critical points""; ""Absolute torsion"" ""Signatures of links and finite type invariants of cyclic branched covers""""The relation between compact and non-compact equivariant cobordisms""; ""Volume of Riemannian manifolds, geometric inequalities, and homotopy theory""; ""Pure braids, a new subgroup of the mapping class group and finite-type invariants of 3-manifolds"";</p>

""1. Introduction""; ""2. Statement of Results""; ""3. Proof of Theorem 1""; ""4. Proof of Proposition 2.1""; ""5. Proof of Theorem 2""; ""6. Proof of Theorems 3 and 4""; ""7. Proof of Proposition 2.2""; ""8. Proof of Theorem 5""; ""References""

""Novikov-Shubin invariants for arbitrary group actions and their positivity""; ""Differential operator endomorphisms of an Euler-Lagrange complex""; ""1. Introduction""; ""2. First toys""; ""3. More serious models""; ""4. Main results""; ""5. Proofs""; ""6. Applications""; ""K-theory of twisted group C^* -algebras and positive scalar curvature""; ""Equivariant orientations and Thorn isomorphisms""; ""1. The fundamental groupoid and categorical definitions""; ""2. Functors to the category of G -spaces over orbits""; ""3. Coherent families of connected covers""
