

1071-57-280

**Jae Choon Cha** and **Kent E Orr\*** ([korr@indiana.edu](mailto:korr@indiana.edu)), 831 E. 3rd Street, Department of Mathematics, Bloomington, IN 47405. *Homology cobordism of 3-manifolds and Cheeger-Gromov invariants.*

We discuss recent progress in understanding homology cobordism of 3-manifolds, hidden torsion, and Cheeger-Gromov invariants. (Received March 08, 2011)