

Steven Ferry, *Rutgers University, New Brunswick, NJ, USA*

**Volume growth, de Rham cohomology,
and the Higson compactification**

We construct a variant of (real) DeRham cohomology and apply it to prove that the integral cohomology of the Higson compactification of \mathbb{R}^n has uncountably generated n th integral cohomology. Earlier work of Dranishnikov-Ferry-Weinberger shows that the Novikov Conjecture follows from the mod p acyclicity of the Higson compactification. Our construction suggests that the integral cohomology of the Higson compactification may have a real vector space structure.