## 1064-53-206Jon Wolfson\* (wolfson@math.msu.edu), Department of Mathematics, Michigan State<br/>University, Okemos, MI 48824. Fill Radius and the Fundamental Group.

In this talk we relate the geometric notion of fill radius with the fundamental group of the manifold. We prove: Suppose that a closed Riemannian manifold M satisfies the property that its universal cover has bounded fill radius. Then the fundamental group of M is virtually free. We explain the relevance of this theorem to some conjectures on positive isotropic curvature and 2-positive Ricci curvature. (Received September 09, 2010)