

## **COLLAPSED SPACES WITH LOCAL BOUNDED COVERING GEOMETRY**

**Online seminar**

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**Abstract:** In 1978, Gromov proved that an almost flat manifold is diffeomorphic to a nilpotent manifold up to a bounded normal covering space. This result has been a corner stone in the theory on collapsed manifolds with bounded sectional curvature by Cheeger-Fukaya-Gromov.

We will discuss some recent generalization of this result to maximally collapsed manifolds with local bounded Ricci covering geometry, and to maximally collapsed Alexandrov spaces with local bounded covering geometry, as well as counterparts of the above collapsing theory in these spaces of local bounded covering geometry.