

1086-53-1972

Dechang Chen* (cdcchenny@gmail.com), Math& Stats Department, University of
Massachusetts, Amherst, MA 01002. *Area growth of surfaces with bounded mean curvature.*

In this paper, we give lower volume growth estimates for a complete noncompact hypersurface M with bounded mean curvature in a complete n - manifold N with bounded mean curvature and positive injectivity radius, where M is allowed to have compact boundary. Then we will show some applications of this result. (Received September 24, 2012)