

1153-53-331

Antoine Song* (antoinesong@yahoo.fr). *Complexities of bounded area minimal hypersurfaces.*

How are the Morse index and the topology or singular set of minimal hypersurfaces related? I will present a new method to study minimal hypersurfaces with large Morse index and bounded area, which enables to prove quantitative estimates. For instance in any closed manifold of dimension 3, for any family of minimal surfaces with uniformly bounded area, genus and index are equivalent. (Received August 31, 2019)