

Bernstein theorems for graphs with prescribed mean curvature under volume growth conditions

Luciano Mari ¹

¹ Scuola Normale Superiore

In this talk, I will discuss some new Bernstein theorems for entire graphs in warped products $\bar{M} = R \times_h M$ over a complete M . Relevant cases include minimal graphs as well as graphs with prescribed, nonconstant mean curvature, with emphasis on solitons for the mean curvature flow and capillarity hypersurfaces. The geometric assumptions on M only involve the volume growth of its geodesic balls. This is based on joint work with B. Bianchini, G. Colombo, P. Pucci and M. Rigoli.