ABSTRACT

Curvature estimates for surfaces with bounded mean curvature

In this talk I will discuss some recent results concerning estimates for the norm of the second fundamental form, $|A|$, for surfaces with bounded mean curvature. In particular I will show that for an embedded geodesic disk with bounded L^2 norm of $|A|$, $|A|$ is bounded at interior points, provided that the $W^{1,p}$ norm of its mean curvature is sufficiently small, $p > 2$. This is joint work with Giuseppe Tinaglia.