



Geometry Session

Submanifolds of Constant Mean Curvature: rigidity and stability

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Abstract.

In this talk we will establish conditions on the first eigenvalue of the stability operator and on the length of the traceless part of the second fundamental form of a complete submanifold M^n with constant mean curvature in $M^{n+m}(c)$ to show that M^n has some geometric property of rigidity.