

COLLOQUIUM
UNIVERSITY OF PITTSBURGH
FRIDAY FEBRUARY 20, 2009
704 THACKERAY HALL
4:00 P.M.

PROFESSOR QING HAN
DEPARTMENT OF MATHEMATICS
UNIVERSITY OF NOTRE DAME

LOCAL ISOMETRIC EMBEDDING OF SURFACES
IN 3-DIMENSIONAL EUCLIDEAN SPACES

ABSTRACT: It is a classical question whether a 2-dimensional Riemannian manifold admits a local isometric embedding in 3-dimensional Euclidean spaces. The question was raised by Schläefli in 1873. Solutions are known only for special cases when Gauss curvature possesses some stability condition. In this talk, we will discuss this question and present some new results.

Refreshments served at 3:30 p.m.
in the Math Dept. COMMON ROOM, Thackeray 705