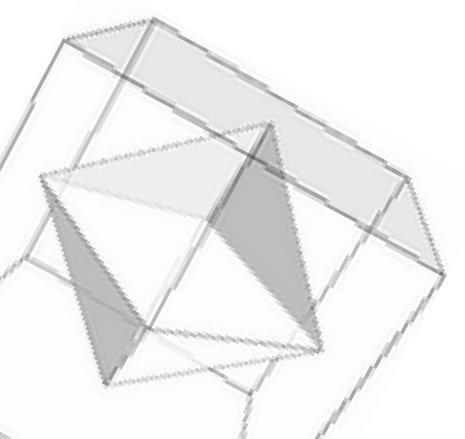
## COLLOQUIUM

WAYNE DEETER

11-5-15 NECKERS 156 | 3PM

RECEPTION IMMEDIATELY FOLLOWING IN THE MATH LIBRARY

PLEASURES, CHALLENGES AND NEW RESULTS ON POLYHEDRA



## [ABSTRACT]

If we attempt to enclose a circle, or a sphere --or a hypersphere in any number of dimensions
--- with an intersection of planes or hyperplanes
(in general terms, within a polyhedron), we will
have only an approximation of a sphere. We
ask instead, "How closely can any polyhedronenclosure of the sphere fit?" How many of its
faces would be identical? How many different
types of faces would this roundest polyhedron
have? Today there are no known formulas to
specify the roundest polyhedra

