

## GEOMETRY SEMINAR

## A characterization of the critical catenoid

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**Abstract.** A. Fraser and M. Li conjectured that, up to congruences, the critical catenoid is the unique properly embedded free boundary minimal annulus in  $B^3$ . In this talk, we present a proof, due to P. McGrath, of a particular case of this conjecture. He proved that an embedded minimal annulus  $\Sigma \subset B^3$  which intersects  $\mathbb{S}^2$  orthogonally and is invariant under reflection through the coordinates planes is the critical catenoid.