# Department of Mathematical Sciences <br> Colloquium 

Cesar Garza<br>Department of Mathematical Sciences, UTEP

## SOME EXAMPLES OF DISTANCE 3 TOROIDAL SURGERIES ON HYPERBOLIC KNOTS

By the work of Thurston, any surgery on a hyperbolic knot in the 3-sphere produces a hyperbolic 3 -manifold except in at most finitely many cases. So far, the figure 8 -knot seems to be the best candidate for a hyperbolic knot with the most (8) non-trivial exceptional surgeries. In recent years, much progress has been made in the classification of hyperbolic knots admitting more than one exceptional toroidal surgery. In fact, such classification is known for toroidal surgeries with distance at least 4. In this talk we will introduce some of the basic notions and results in this area of research, and discuss some new examples of toroidal surgeries at distance 3.

## Friday, March 6, 2009 at 3 pm in Bell Hall 143 <br> The University of Texas at El Paso

Refreshments will be served in front of the colloquium room,
15 minutes before the start of the colloquium.

For further information, please contact Dr. Andrzej Pownuk, Bell Hall 201.
Phone: (915) 747-6759, e-mail: ampownuk@utep.edu.

