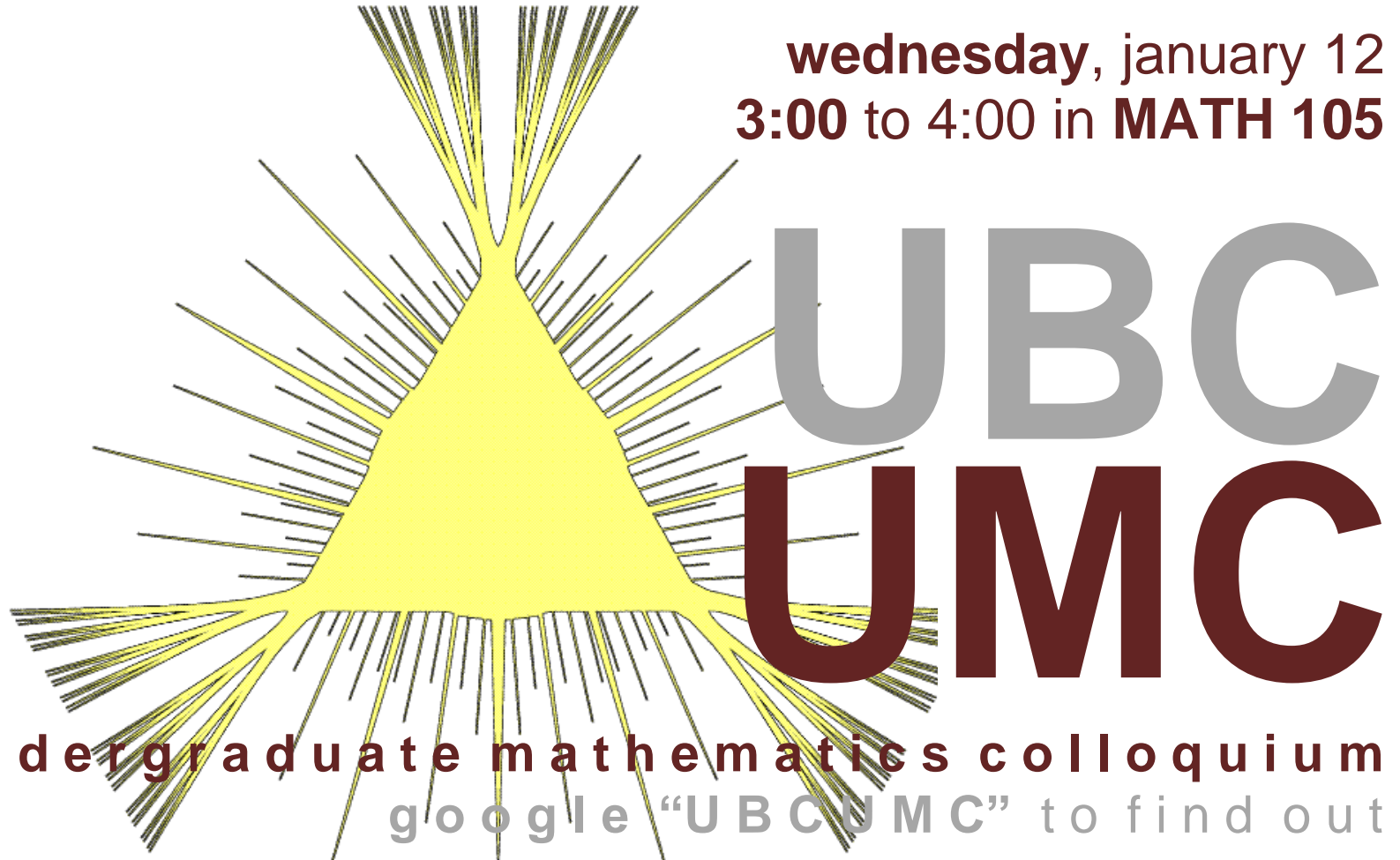


## Vince Chan: *Improving on the 3-point turn*

*A set in a closed plane is called a Kakeya set if a needle can be continuously rotated around within it, returning to its original position with its ends reversed. In 1917, Soichi Kakeya asked for the minimal area for Kakeya sets. This talk will cover some of the ideas considered for this problem, including the “3-point turn”, and a clever construction known as Besicovitch sets which answers a related problem.*

**wednesday, january 12**  
**3:00 to 4:00 in MATH 105**



the undergraduate mathematics colloquium  
google "UBC UMC" to find out