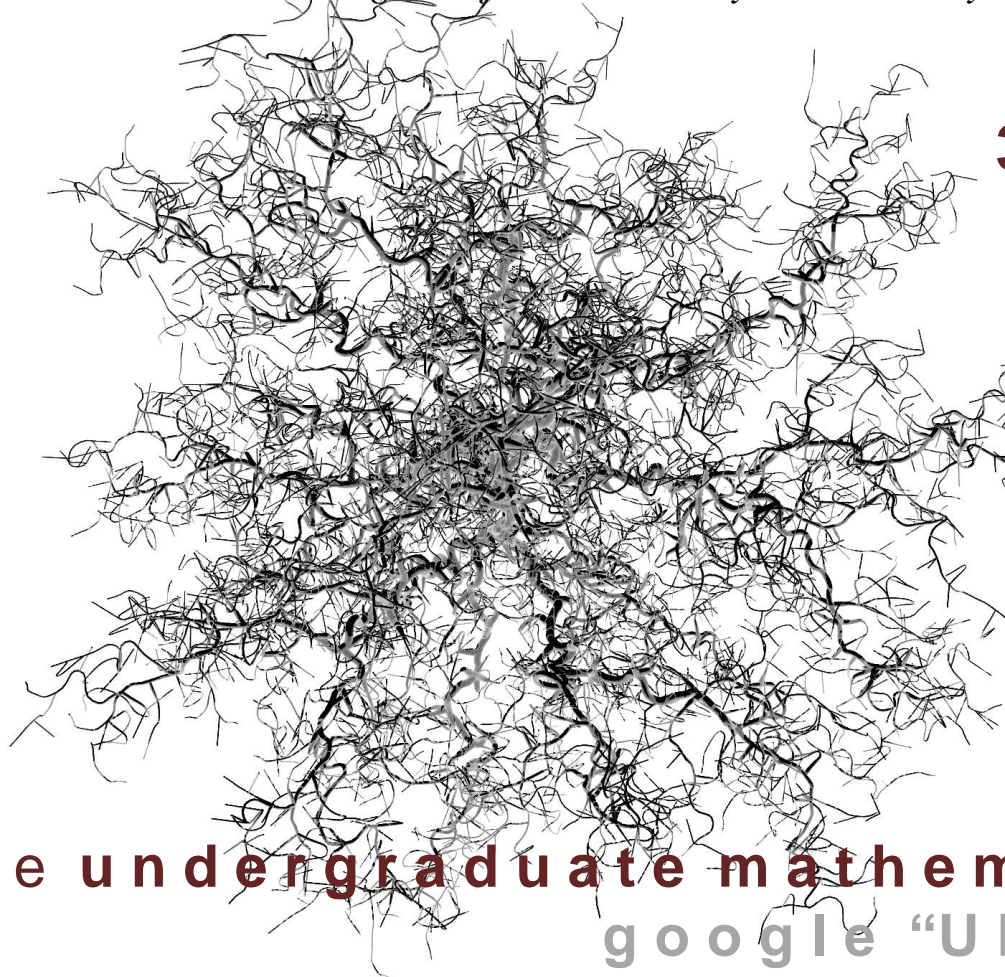


# Bud Homsy: *Viscous Fingering in Porous Media*

*What do oil production, fractal aggregates, electrochemical deposition and lightning have in common?*

*This talk will focus on modelling unstable flow in porous media, which is important in enhanced oil production. I'll review the partial differential equations of fluid flow in porous materials and then discuss the stability of the uniform flow state, with some emphasis on physical mechanisms. Then I'll discuss the nonlinear regime of this instability which is only accessible through numerical simulation.*

**wednesday, february 9**  
**3:00 to 4:00 in MATH 105**



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