

1086-60-1920 **Ashley L Webber*** (ashleywebber7@gmail.com). *The Mathematical Modeling of Multifocal Tumors.*

This talk will discuss some stochastic modeling approaches for the growth of high-grade malignant brain tumors (glioblastoma multiforme) on realistic geometries. I will describe and justify the addition of an Ornstein-Uhlenbeck process to model the local growth rates of the tumor and will show qualitatively good agreement with actual patient cases of multifocal tumors. (Received September 24, 2012)