

1135-VM-788      **Michelle Previte\*** (michelleprevite@psu.edu) and **Joseph P. Previte**. *The Dynamics of*  
 $f(z) = i^z$ .

In this talk, we will explore the dynamics obtained by iterating the complex function  $f(z) = i^z$ , where the principal branch is used. We explore the basin of attraction of the stable fixed point  $i^{(i^{(i^{\dots})})}$ . We will also show that there are periodic orbits of all periods as well as orbits that tend to infinity. (Received September 14, 2017)