

1116-VB-2806 **Joseph P Previte*** (jpp4@psu.edu), School of Science, 4205 College Drive, Erie, PA 16563. *The Beautiful 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 are periodic orbits of all periods as well as orbits that tend to infinity. (Received September 22, 2015)