

**Meeting:** 998, Houston, Texas, SS 8A, Special Session on Dynamical Systems

998-37-239            **Oliver R. Diaz\*** ([odiaz@math.utexas.edu](mailto:odiaz@math.utexas.edu)), Department of Mathematics, 1 University Station  
C1200, Austin, TX 78712-0257. *Period-doubling cascades with external noise*. Preliminary report.  
We analyze the behavior of randomly perturbed uni-modal maps at the accumulation of period-doubling regime. When the magnitude of the error is re-scaled at different steps, we obtain a Central Limit Theorem type of result. (Received February 28, 2004)