1108-60-456 **Brent Morehouse Werness*** (bwerness@math.washington.edu). *Convergence of discrete holomorphic functions for random maps.*

The theory of discrete holomorphic functions has been studied by researchers from a diverse set of fields from classical complex analysts to applied computer scientists. Through work of Smirnov, Chelkak, Duminil-Copin and coauthors, discrete holomorphicity has found a central role in the study of conformally invariant random processes on lattices where the convergence of discrete holomorphic functions associated with these processes to continuous ones often allows an identification of limiting processes for the random curves as forms of Schramm–Loewner evolution.

In parallel, there has been an increase in understanding of random planar maps, with one of the primary conjectures being that these conformally invariant random processes coupled with random planar maps should also converge to forms of Schramm–Loewner evolution. In this talk we will provide a generalization of existing convergence results to lattices which include those obtained from some models of random planar maps. (Received January 19, 2015)