1035-37-769 **Kourosh Tavakoli*** (tavakoli@fordham.edu). *Iterated Holomorphic Function Systems.*

Consider all the backward iterated function systems corresponding to the sequences of holomorphic functions from the unit disk D into a subdomain X. Lorentzen and Gill showed that if X is relatively compact in D, then every iterated function system has a unique limit function which is a constant inside X. In other words, they showed that relative non-compactness of X is necessary in order to have a boundary point as a limit function. Keen and Lakic used the notion of hyperbolic Bloch domain, first introduced by Beardon et al., and showed that if X is not Bloch in D, every boundary point of X is a limit function of some iterated function system. In this talk we generalize this result and show that relative non-compactness of X in D is a sufficient condition to have a boundary point as a limit function. (Received September 15, 2007)