Math 595: Topics on CBERs  HW 3  Due: Apr 11, 5–6:15pm, in 443AH

1. A graph $G$ on a standard Borel space is called hyperfinite if it is a countable increasing union of Borel graphs with all connected components being finite. Prove:
   (a) A graph $G$ is hyperfinite if and only if its connectedness relation $E_G$ is hyperfinite.
   (b) Any Borel graph with each vertex having degree $\leq 2$ is hyperfinite.

MORE TO BE ADDED.