1016-32-221 **Malgorzata Sabina Stawiska\*** (`stawiska@math.uic.edu`), Dept. of Mathematics, Stat. & Comp. Science, 851 S. Morgan St., Chicago, IL 60607. *Attracting hypersurfaces for holomorphic endomorphisms of $\mathbb{CP}^k$.* Preliminary report.

We give conditions under which a holomorphic endomorphism $f$ of $\mathbb{CP}^k$ has an attracting hypersurface $A$. The conditions are formulated in terms of pluripotential theory on $\mathbb{CP}^k \setminus A$ and of the behavior of plurisubharmonic exhaustions on $\mathbb{CP}^k \setminus A$ under pushing forward by $f$. A relation with the theory of quasi-plurisubharmonic functions is shown. (Received February 13, 2006)