1039-42-142Winston Ou* (wcwou@scrippscollege.edu), Scripps College, 1030 N. Columbia Avenue,
Claremont, CA 91711. Simplified refined Jones factorization of A_{∞} weights.

A variant of the Hardy-Littlewood maximal operator (introduced by Bennett in 1982 to study the space of functions of bounded lower oscillation) renders transparent the asymmetry between A_1 and RH_{∞} (the limiting A_p and reverse Hölder classes) and, subsequently, Cruz-Uribe and Neugebauer's 1995 refinement of the Jones factorization theorem (i.e., that any weight in $A_p \cap RH_s$ can be expressed as a product of some $w_0 \in A_p \cap RH_{\infty}$ and some $w_1 \in A_1 \cap RH_s$). (Received March 10, 2008)