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Pin-Hung Kao* (kao1p@cmich.edu), Central Michigan University, Department of Mathematics, Pearce Hall 214, Mt Pleasant, MI 48859. *A modified Selberg's lower bound sieve and its applications.*

We study Selberg's $\Lambda^{-\Lambda^2}$ lower bound sieve. In particular, we incorporate the recent works by C. Franze and S. Blight with Laborde weights. We apply this modified lower bound sieve to products of linear form $\prod_{i=1}^r (a_i n + b_i)$, where a_i and b_i are integers, and $r \geq 3$. (Received September 21, 2015)