1067-20-1096 Benjamin Newton* (newtonb@beloit.edu), Beloit College, 700 College St., Beloit, WI 53511. On the number of maximal subgroups of a finite solvable group. Preliminary report.
For a finite group $G$, let $\mathfrak{m}(G)$ be the number of maximal subgroups of $G$, and let $h(n)=\max \{\mathfrak{m}(G) \mid G$ is solvable and $|G|=n\}$. We present an upper bound $f(n)$ for $h(n)$ which improves existing upper bounds. We also identify values of $n$ for which $f(n)=h(n)$. (Received September 18, 2010)

