1014-08-716   **Howard C Lee*** (`hlee@math.ucla.edu`). *Finite Algebras that Generate Congruence-Distributive Varieties.* Preliminary report.

Jónsson showed that members of a variety V have distributive congruence lattices if and only if for some n there exist $n+1$ ternary terms satisfying certain identities, in which case we say that condition $CD(n)$ holds for V. For each $m > 0$, we construct an algebra with $m+1$ elements whose variety satisfies $CD(4m)$ but not $CD(k)$ for $k < 4m$. For example, we construct a three-element algebra whose variety satisfies $CD(8)$ but not $CD(k)$ for $k < 8$. (Received September 22, 2005)