1042-20-112   **Claire W Wladis*** (`cwladis@gmail.com`). *Distortion of Subgroups of the Generalized Thompson groups $F(n_1, ..., n_k)$.*

Thompson groups $F(n_1, ..., n_k)$, where k is a natural number greater than 1 and $n_1 - 1$ divides n_i for all i, show some subgroup behavior that is similar to other known Thompson groups and some behavior that is distinct. Cyclic subgroups are undistorted in these groups, but any subgroup $F(n_i)$, $i \leq k$ for which there exists $j \leq k$ such that $n_i - 1$ divides $n_j - 1$, will be distorted in the larger group. This is in direct contrast to other known generalized Thompson's groups; for example, it is known that for any n and m, $F(n)$ embeds quasi-isometrically into $F(m)$. (Received August 14, 2008)

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