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**Amita Malik\*** (amalik10@illinois.edu), 1409 W Green Street, Urbana, IL 61801, and **Florin Stan** and **Alexandru Zaharescu**. *Siegel norm and the character values of finite groups*.

In 1969, Cassels showed that under certain conditions, an algebraic integer in an abelian field is a sum of at most two roots of unity. From this, similar results can be deduced for the character values of finite groups. An unpublished theorem of Thompson states any character has length at most one at more than one third of the group elements. We generalise these results for arbitrary length by establishing a connection between the Siegel norm, the length function. In particular, we obtain a dual result to that of Burnside. This is joint work with Florin Stan and Alexandru Zaharescu. (Received September 22, 2014)