1108-16-455Charlotte Ure\* (urecharl@msu.edu), Department of Mathematics, MSU, C543 Wells Hall, 619Red Cedar Road, East Lansing, MI 48824. Maximal Dimension of Kummer Subspaces of Tensor<br/>Products of Cyclic Algebras of Degree Four.

The maximal dimension of a Kummer subspace of tensor products of cyclic algebras can be used to bound the symbol length of any central simple algebra of a certain degree. Using graph theory, we show that in the special case of degree four, the maximal dimension of a Kummer subspace is 4n + 1. This is a work in progress. (Received January 19, 2015)