962-05-846   **Wiebke S. Diestelkamp** (`wiebke@udayton.edu`), Department of Mathematics, University of Dayton, Dayton, OH 45469-2316. *Parameter inequalities for asymmetric orthogonal arrays.* Preliminary report.

An important question in the construction of orthogonal arrays is what the minimal size of an array is when all other parameters are fixed. We will provide a generalization of the lower bound for the size of a symmetric orthogonal developed by J. Bierbrauer. We will utilize his algebraic approach to provide an analogous inequality for the size of asymmetric orthogonal arrays. (Received September 27, 2000)