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**Zhongyuan Che\***, Penn State University Beaver Campus, 100 University Drive, Monaca, PA 15061. *Uniquely pairable graphs*. Preliminary report.

The concept of a  $k$ -pairable graph was introduced by Chen (*On  $k$ -pairable graphs*, Discrete Mathematics **287** (2004), 11–15) as an extension of hypercubes and graphs with an antipodal isomorphism. In this talk, we introduce a special class of  $k$ -pairable graphs which are called uniquely pairable graphs. Then we give a characterization of uniquely pairable graphs in terms of the prime factor decomposition. (Received September 17, 2007)