

1092-08-297

Ian Payne* (ipayne@uwaterloo.ca) and **Ross Willard**. *Maltsev Conditions on the Feder-Vardi Reduction to Bipartite Graphs with Constants*. Preliminary report.

In 1998, in the same paper as their dichotomy conjecture for CSP complexity, Feder and Vardi showed that any constraint satisfaction problem is polynomially equivalent to that of a bipartite graph with constants. In fact, they explain how to construct the graph. This talk is an exploration of which Maltsev conditions satisfied by a relational structure are still satisfied by the graph associated to it via this construction. (Received August 12, 2013)