

**Meeting:** 999, Nashville, Tennessee, SS 14A, Special Session on Graph Theory and Matroid Theory

999-05-245            **Tristan Denley\*** (tdenley@olemiss.edu), Mathematics Department, University of Mississippi, University, MS 38677, and **Jaromy Kuhl** (jskuhl@hotmail.com), Mathematics Department University of Mississi, University of Mississippi, University, MS 38677. *On a conjecture of Haggkvist on completing latin squares.* Preliminary report.

Some years ago Haggkvist conjectured that if  $n - 1$   $r \times r$  squares are filled with symbols in an  $nr \times nr$  partial latin square then this configuration can always be completed to a latin square. This conjecture remains open. We will present some recent results in on this topic. (Received August 24, 2004)