1002-11-42 **Andrew R Booker*** (`arbooker@umich.edu`), Mathematics Department, University of Michigan, Ann Arbor, MI 48104. *An algorithm for verifying Artin's conjecture.* Preliminary report.

We present a group-theoretic criterion under which one may verify holomorphy of (non-monomial) Artin representations up to finite height. The criterion is satisfied in particular for A5 representations. (Received July 20, 2004)