

1150-11-149

Jon Grantham*, 17100 Science Dr., Bowie, MD 20715. *An Unconditional Improvement to the Running Time of the Quadratic Frobenius Test.*

Damgård and Frandsen demonstrated an extension to the Quadratic Frobenius Test (a probable primality test) which has a reduced running time.

This improvement can be extended to other versions of the test, but in general depends on the Extended Riemann Hypothesis. I will show how to achieve a speedup intermediate between the original and the new running times that does not depend on any unproven hypotheses. (Received July 05, 2019)