

1155-11-11 **Eva Goedhart*** (eva.goedhart@williams.edu) and **Helen G. Grundman**. *Using Lehmer Numbers to Solve Diophantine Equations.*

After a little history on Diophantus, I'll give a friendly introduction to Diophantine equations and Lehmer numbers. Then applying a well-known result of Bilu, Hanrot, and Voutier (2001), I'll show how Lehmer numbers are used to solve a family of Diophantine equations. (Received September 20, 2019)