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Eva G. Goedhart* (egoedhart@brynmawr.edu). *New Results on Diophantine Equations.*

In the context of presenting my new results concerning specific Diophantine equations and families of equations, I will survey a variety of current techniques, including Lehmer numbers, linear forms in logarithms, Diophantine approximation, and the modular approach, explaining how each is used in my proofs. (Received September 15, 2014)