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Alain Togbe* (atogbe@pnc.edu), 1401 S U.S. Hwy 421, Westville, IN 46391. *On the Diophantine equation $x! + 1 = y^2$.*

The Brocard-Ramanujan Diophantine equation

$$x! + 1 = y^2$$

is still an open problem. Many variants of the Brocard-Ramanujan Diophantine equation have been studied. In this talk, we will discuss the recent progress and the variants of the problem. (Received February 13, 2006)