

1096-VM-2254 **Joseph F DiNatale*** (jd4732@stu.armstrong.edu), 101 Royal Oak Court, Savannah, GA
31406. *Electronic Computation of Simple Perfect Squared Squares.*

“Squaring the square” is the problem of dissecting squares of integer side lengths into several smaller squares also of integer side lengths. It is known that an ordinary square may be dissected into at minimum 21 squares. For squares that describe cylinders, the lower bound is 20. To further decrease this lower bound, we consider squares that describe other quotient spaces, including Möbius bands, Klein bottles, and projective planes. We introduce an algorithmic approach for finding such squared squares, extending the results of S.J. Chapman. (Received September 17, 2013)