

## *Erratum*

# **On Some Arithmetic Problems Related to the Hodge Cycles on the Fermat Varieties**

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The statement of Theorem B in Introduction (p. 24) was incorrect and it should be corrected as follows. The proof given there was correct, so it needs no change.

### **Theorem B**

$$\varrho(X_m^2) = 3(m-1)(m-2) + 1 + \delta_m + 48(m/2)^* + 24(m/3)^* + \varepsilon(m),$$

where  $\delta_m = 1$  if  $m = \text{even}$ ,  $= 0$  if  $m = \text{odd}$ . For a rational number  $x$ ,  $(x)^* = x$  if  $x$  is an integer, and  $(x)^* = 0$  otherwise. The last term  $\varepsilon(m)$  is a bounded function of  $m$  of the form

$$\varepsilon(m) = \sum_{\substack{d|m \\ d \leq 180}} \Delta(d)$$

where  $\Delta(d)$  ( $d \leq 180$ ) is an explicitly defined function of  $d$  which vanishes if  $(d, 6) = 1$ . (cf. [10, Table in p. 727]).