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 *$v_2$ -periodicity at the prime 2.*

I will describe the construction of a  $v_2^{32}$ -self map on the generalized Moore spectrum  $M(1, 4)$  at the prime 2. I will explain how this map produces numerous 2-primary  $v_2$ -periodic families of the stable stems of period 192, which are detected by  $tmf$ . (Received February 12, 2008)