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**Wei Ho\*** ([who@math.columbia.edu](mailto:who@math.columbia.edu)) and **Aise Johan de Jong**. *Genus one curves and Brauer-Severi varieties.*

Given a Brauer-Severi variety  $X$  over a field, is there always a genus one curve that maps to  $X$ ? We explicitly construct such a curve for the cases where  $X$  has dimension at most 4. (Received September 16, 2012)