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**Edgar Costa\*** (edgarc@mit.edu). *Variation of the rank of the group of algebraic cycles under reduction.*

We study the behavior of the rank of the group of algebraic cycles of abelian varieties and Calabi-Yau manifolds over  $\mathbb{Q}$  under reduction modulo primes. We compute these ranks for reductions of representative examples and investigate the resulting statistics. (Received September 15, 2019)