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Local Szpiro conjecture and rational points on $X_{E}(6 k)$
Motivated by the Szpiro conjecture, we conjecture that for any prime $p$, any integer $M$, and any integer $l>6$, if $E$ is a semistable elliptic curve with minimal discriminant $p^{r} M^{l}$, then $r \leq 6$. We prove this conjecture for many primes $p$ and $l=6 k$ by looking for perfect powers in certain elliptic nets.

