

## **The hidden number problem revisited.**

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In the hidden number problem, one wishes to recover a secret element  $\alpha$  modulo  $p$  given the most significant bits of many multiples  $t \alpha \bmod p$  for random  $t$ . One class of algorithms used to solve this problem uses lattice basis reduction, and is a popular tool in side channel cryptanalysis of ECDSA and DSA signature algorithm implementations. In this talk, I will show an alternative viewpoint on this problem, and give some experimental results for real-world cryptosystems.