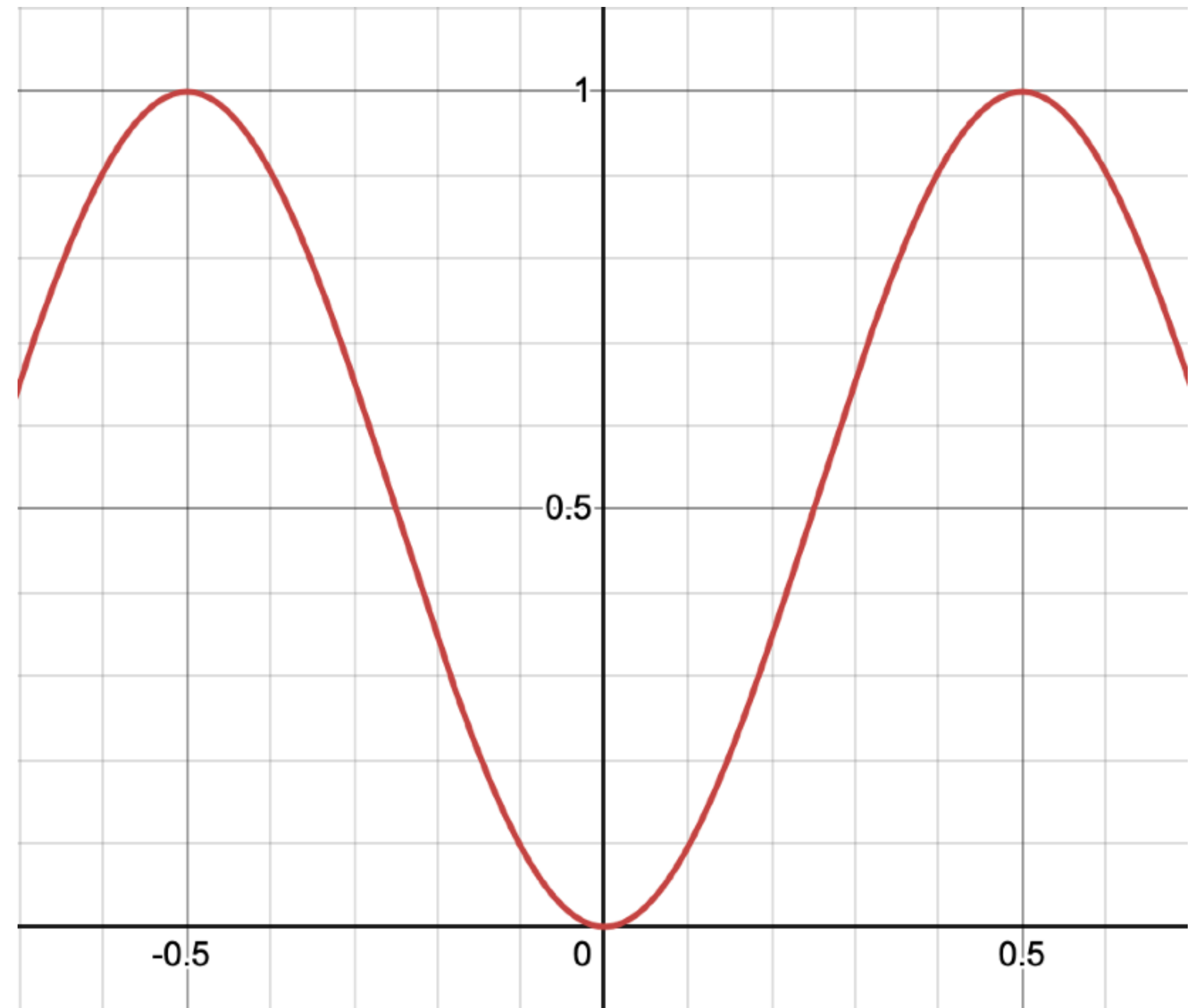


Cleaning error in CKKS

Bootstrapping Bits with CKKS [BCKS24]

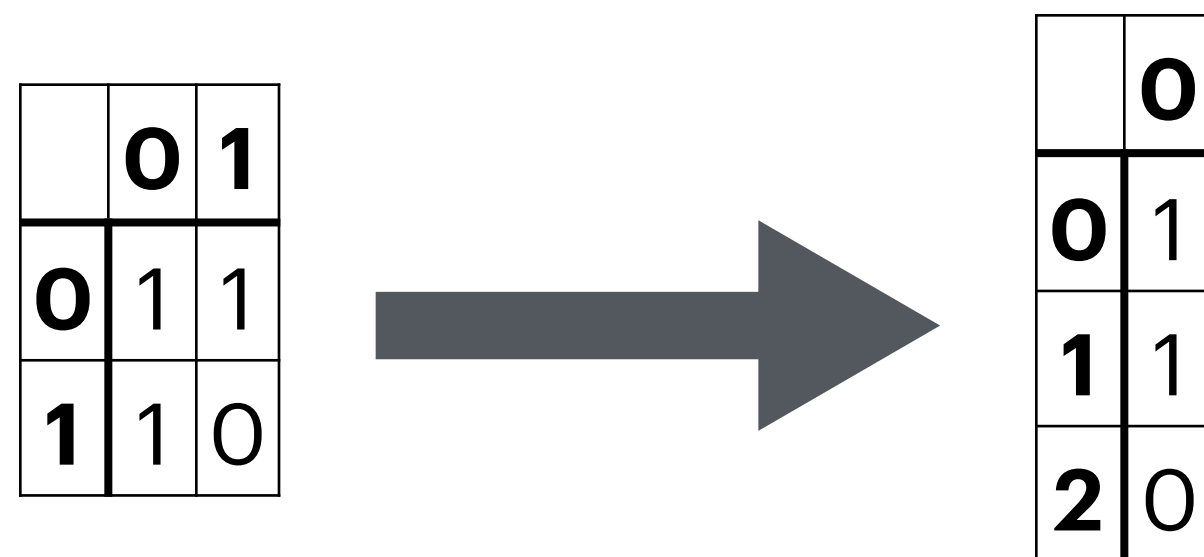
- $f_{BinBoot}(x) = \frac{1}{2}(1 - \cos(2\pi x))$
- Cleaning par interpolation trigonométrique
 - Séries de Taylor
 - Polynômes de Chebyshev
- Plus efficace que h_1 de BLEACH



Cleaning error in CKKS

Bootstrapping Bits with CKKS [BCKS24]

- Porte logique symétrique G (ex $NAND$)
- Vu comme évaluation unaire de $b_1 + b_2 \in \{0,1,2\}$



$$f_{GateBoot}(x) = \frac{2}{3} \left(1 + \sin \left(2\pi x + \frac{\pi}{6} \right) \right)$$

