

HAWK IN HASKELL: IMPLEMENTATION JOURNAL

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I was about to learn (in bird’s eye view) the working of the `verify` subroutine. However, I started reviewing the norms and inner products.

Question. Are inner products closed under scalar multiplication? Yes, if and only if the scalar is positive.

2. NTRUSOLVE

The NTRU equation is

$$fG - gF = q \pmod{X^n + 1}$$

where f and g are given, and the idea is to solve for F and G . All the polynomials in the equation are in $\mathbb{Z}[X]/\langle X^n + 1 \rangle$