Number of Walsh coefficient superior to a treshold

$[w,s,k,n,u,t] = [5,16,18,56,4,12]$

Number of LPN samples: $N = 16384$

Expected number of parity-checks of weight w on $\mathcal{N}$: $N_{eq} = 164502$

$$\widehat{f}(GV_1) := N - 2\,GV\left(N, \log_2\left(\binom{s}{t-u}\right)\right)$$

$\widehat{f}(GV_1)$

$\#\{\mathbf{x} \in \mathbb{F}_2^s : |\mathbf{x}| = t - u \text{ and } \widehat{f}(\mathbf{x}) \geq T\}$

T

Legend:
— Experience
-- Poisson Model
-·- LPN Model