Number of Walsh coefficient superior to a treshold

$[\text{w,s,k,n,u,t}] = [7,14,21,53,2,9]$

Number of LPN samples: $N = 4096$

Expected number of parity-checks of weight w on $\mathcal{N}$: $N_{\text{eq}} = 120164$

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

$\widehat{f}(GV_1)$

Experience
Poisson Model
LPN Model

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

T