Number of Walsh coefficient superior to a treshold

$[w,s,k,n,u,t] = [4,12,19,43,1,7]$

Number of LPN samples: $N = 123$

Expected number of parity-checks of weight w on $\mathcal{N}$: $N_{\mathrm{eq}} = 246$

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

$\widehat{f}(GV_1)$

Legend:
- Experience
- Poisson Model
- LPN Model

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

X-axis: T