

One can also send in low dimensions to get concrete good bounds. What we obtain

n	b.b. with $\frac{3}{2}n$ exp Legend's	b.b. without $\frac{3}{2}n$ exp	best known bound
3	33	10	12
4	24 55	22	(24) 25
5	88	42	(40) 46
6	139	78	(72) 82
7	218	136	(126) 140

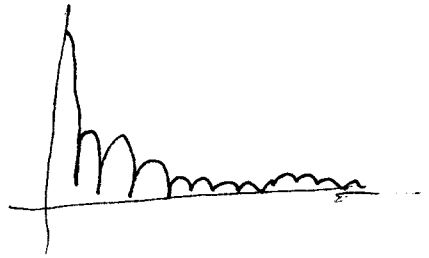
Step: eg. $n=4$ $s=1.625$ $s=2.2$
 55 24

Need $f(t)$ rapidly small for $t \rightarrow \infty$, bound positive.

Choose $J_p(f) \in P$ gives small this:

$L = \mathbb{Z}$:

$$f(t) = c \cdot t^{-1} \sum_{|k| \leq t} \left(1 - \frac{|k|}{t}\right)^5 - 1$$



$$\begin{aligned} \text{---} \\ J=1: f(t) &= c \cdot t^{-1} \left(1 + 2 \sum_{k=1}^{\lfloor t \rfloor} \left(1 - \frac{k}{t}\right) \right) - 1 \\ &= c \cdot t^{-1} \left(1 + 2 \lfloor t \rfloor - \frac{2}{t} \lfloor t \rfloor (\lfloor t \rfloor + 1) \right) - 1 \\ &= c \cdot \left(\frac{1}{t} + 2 \frac{\lfloor t \rfloor}{t} - \frac{2 \lfloor t \rfloor^2}{t^2} - \frac{\lfloor t \rfloor}{t^2} \right) - 1 \end{aligned}$$