$\leq \sum i(i-1)p_i$

$\leq \sum_{i=0}^{\infty} \mu^{1/2}(i-1)p_i$

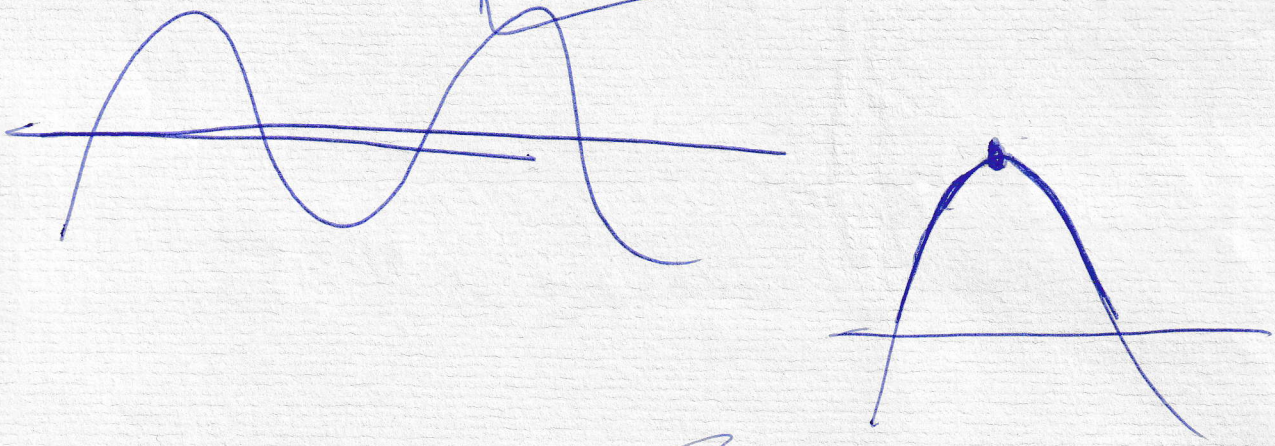
$\sum_{i=2}^{\infty} (i-1)p_i$

so it's in fact smaller! and may be easier to bound!!

i.e can look at lower moments!!

which may be easier to bound so make the proof a lot easier!

$\leq \frac{1}{2}\mathbb{E}[\mu^{1/2}(\mu-1)]$



$\mathbb{E}[\mu_N] = \sum i\, p(\mu_N = i)$

$\mathbb{P}(\mu_N \geq 1, q_N \geq 1)$

$\mathbb{E}[\mu_N 1[q_N \geq 1]$

$= \sum_{ij} p_{ij}$

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