

编号:

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P1

Donote  $i_1 < i_2$ 

$$\sum_{j=0}^{\infty} P_{ij} h(j) = P_{i,0} h(0) + P_{i,1} h(1) + \dots$$

Same for  $\sum_{j=0}^{\infty} P_{i_2 j} h(j)$ Since  $\sum_{j=0}^{\infty} P_{ij}$  is increasing for  $i$ ,  $R \geq 0$ .

$$\Rightarrow \sum P_{i_1 j} \leq \sum P_{i_2 j}$$

$$P_{i_1,0} h(0) + P_{i_1,1} h(1) + \dots = (h(0) + h(1) + \dots) \left[ \frac{P_{i_1,0} h(0)}{h(0) + h(1) + \dots} + \dots \right]$$

按内数相同取这组合,

Thus  $P_{i_1,0} \leq P_{i_2,0}$  又式1取这组合小于式2.

$$\Rightarrow \sum_{j=0}^{\infty} P_{ij} h(j) \leq \sum_{j=0}^{\infty} P_{i_2 j} h(j) \text{ also increasing}$$