Cycle type (C₁ C₂ C₃ C_n) C_i=# i-eycles

(1,1,2,0,... o) Z i · c_i = n

Tuesdays 1:30-2:30

8- by appointment

Office hows:







(53)(614)(7)(928)

integer partitions $\mathcal{A} = (\mathcal{A}_1 \geq \dots \geq \mathcal{A}_K)$ of n $\mathbb{Z}_{i} \geq n$ $\mathbb{Z}_{i} = n$ \mathbb{Z}_{i

Valid cycle types for WE Sn are partitions of n.

(222)~ PCn)=1,2,3,5,7,11,15,22,80,42,56,77,101,... (22115

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Find a recurrence reletion for Ph (n).

 $P(n) = 1 \forall n.$

 $\frac{\text{end } n \perp l+1}{\left(\lambda_{1}, \dots, \lambda_{K-1}, N \right)} \xrightarrow{\left(\lambda_{1}, \dots, \lambda_{K} \right)} \frac{\lambda_{K}}{\lambda_{K}} \xrightarrow{\left(\lambda_{1}, \dots, \lambda_{K} \right)} \xrightarrow{\left(\lambda_{1}, \dots, \lambda_{K} \right)} \frac{\lambda_{K}}{\lambda_{1}} \xrightarrow{\left($

 $P_{EK}(n) = \# \text{ partitions of } n \text{ sub-at-most } K \text{ parts.}$ $= P(n) + P(n) + P(n) + \cdots + P_k(n)$ P(n) = Pan (n).