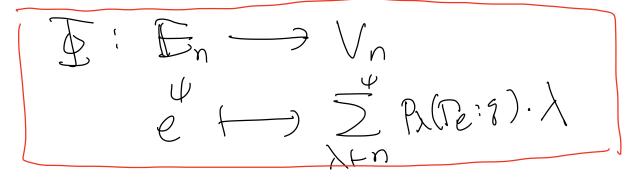
Today: How to find a probabilistic formula for \$(9) (T: unit interval graph) 3 Notations [n] = 31,2,...,n7is called conjugate Hessenbag fon  $Def e: [n] \rightarrow \mathbb{Z}$ [N] = i  $\left( \begin{array}{c} \mathcal{C}(N+1) := M-1 \end{array} \right)$ recolation = 3 e: [m-12] conj. Hers. franco  $\frac{\partial}{\partial x} = \frac{\partial}{\partial x} = \frac{\partial}$ (N(N+1) = N)he Hn ~ Xh: Hessenbers var  $H^{2}(X_{h}) \subseteq G_{n}$   $Frob(H^{2}(X_{h})) = \omega(X_{n}(g))$ (don syn for era)

ec En ~ Te: unit interval sriph ( vertices: [n) edges: î→j 2ff eg) <ì < j  $e = (0,0,0,1,2,3) \in \mathbb{F}_{6}$ Te= (1) 3 (5) (5) Def whit interval sraph is a souph Te for some  $E_n$   $e_n \in E_n$  by  $e_n(i) = 0$ ~ Ten = complete graph Det ecEn, écEn ~, everendent 18; SN  $QUe'(i) = \begin{cases} e(i) & |sisn \\ n+l(i-n) & |sisn \\ |sisn$ -) Tever = Tev Ter (ordered disjoint union)

- XTever (9) = Xre(9). Xre(19) For M = (M1,-, ML): composition of n en := en v en 20 --- v en e (O,-, D, M,-, M, Metrz.-XTen(9)= TT Cu-79! - Cx(x)

\(\chi:\ten(9)=\text{Ten(9)}=\text{X: regrangement of M}\)  $e \in E_n$ ,  $Xre(9) = \sum_{\lambda \vdash n} c_{\lambda}(re:9) \cdot e_{\lambda}(n)$ > glel-lext cx(Pz:8) X+n Glel-lext cx(Pz:8) =1  $\left(\begin{array}{c}
|e| = e(i) + e(2) + \cdots + e(n) \\
|e| = \sum_{i \in i} \lambda_i \lambda_i
\end{array}\right)$ Px (Te: ?):= ? lel-lex (x(Ti:?)
Tt [];  $V_0 := \mathbb{Q}(i) < \lambda \mid \lambda \vdash n > 0$ 



· Want to understand I

tx N=O  $\Omega_{o}(\phi) = \mathfrak{T}(\overline{o}) = \Pi$  $\underline{M=1} \quad Q_0(\underline{D}) = \underline{F}(0,0) = \underline{M}$  $\Omega_{l}(\Omega) = \Xi(0,l) = \Xi$ N=2  $\Omega_{0}(\Pi)=\Phi(0,0,2)=\Pi\Pi$  $\Omega_{1}(\Pi) = \overline{D}(0,0,1) = \overline{\Omega_{3}} + \overline{\Omega_{3}} \Pi$  $\Omega_2(\mathbf{D}) = \mathbb{R}(20,2) = \mathbb{R}$ 口(日)=豆(小儿)=

$$Q_{2}(A) = \Phi(12) = \Phi$$

$$(do not need \Omega_{0}(A), but Q_{0}(A) = \Phi_{1})$$

$$M=3 \quad \Omega_{r}(\Pi) = \frac{Gh}{3h} H_{1} + \frac{2^{n}}{3h} \Pi_{1}$$

$$(\Omega_{r}(\Pi)) = --)$$

$$\Omega_{1}(\Phi(0,0,1)) = \Phi(0,0,1,1) = \frac{10}{3h} H_{2} + \frac{2^{n}}{3h} \Pi_{1}$$

$$\frac{1}{2h} \Omega_{1}(A) + \frac{2}{2h} \Omega_{1}(A)$$

$$\Omega_{2}(\Phi(0,0,1)) = \Phi(0,0,1,2) = \frac{10}{2h} H_{2} + \frac{2}{3h} H_{2}$$

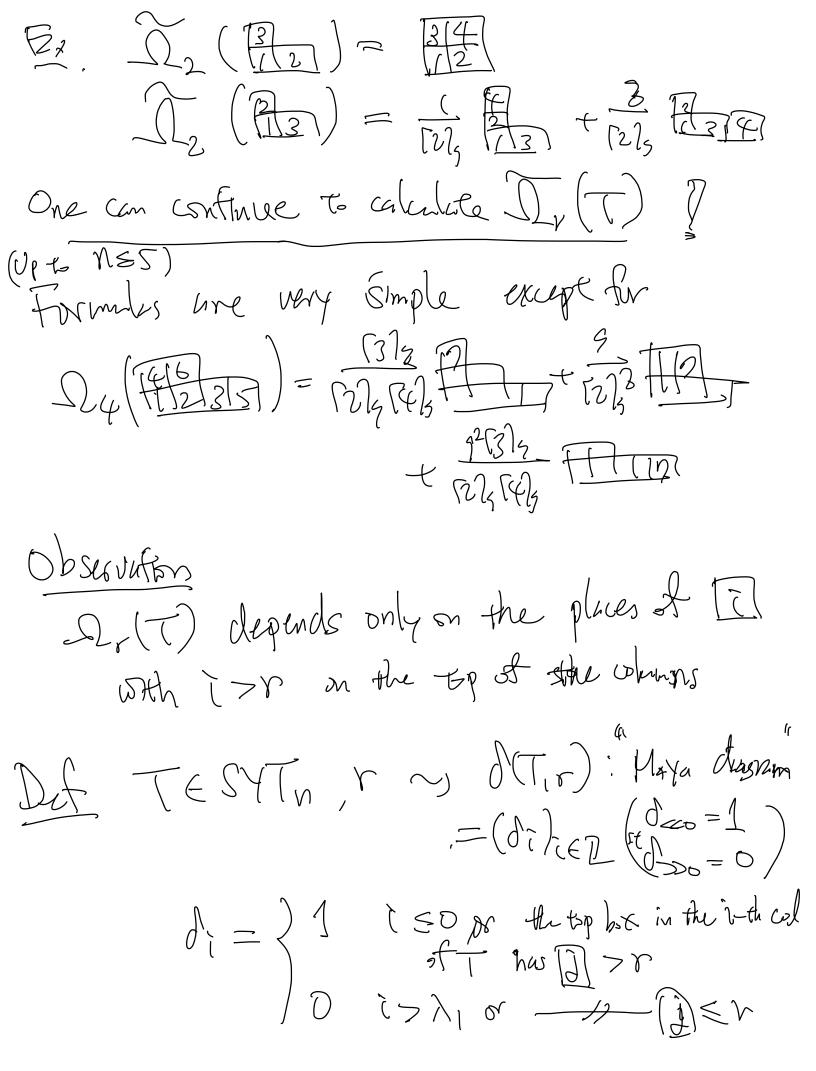
$$\frac{1}{2h} \Omega_{2}(A) + \frac{2}{6h} \Omega_{1}(A)$$

$$\Omega_{1}(A) + \frac{2}{6h} \Omega_{1}(A)$$

$$\Omega_{2}(A) = H$$

$$\Omega_{1}(A) + \frac{2}{6h} \Omega_{2}(A)$$

But D2 (\$(0,1,1)) = \$(0,1,1,2) = 01, fb + 02, fb D2(A) in consistent ?  $\mathcal{D}(0,0,2): \phi \rightarrow \Omega \rightarrow \Omega \rightarrow \Omega$ 更(つ、(し): 中一かいの) transition probability depends on the past states (not Markov) & Markevilation Idea: Use standard toung tablean  $\nabla_{n} := O(2) < T | T \in SYT(\lambda), \lambda \vdash n >$  $\int T \left( \tau(\tau) = \lambda \right)$ Prod Dr. Vn - Vnts P.T. (1) D(e) = (1 De(n) ) Le(a-1) - Slew(+)  $\mathcal{T} = (\tau)_{r} \mathcal{Q}$ T: adding MH) to T



transition probability depend only on S(T, or)
While chould be defined in "Maya diagram"

SYTN O(-,r) Maya

Dr J Qr

SYTNel O(-,r) Maya