Mutually	Exclusive	2	disjoint
----------	-----------	---	----------

$$\lambda_i \cap A_j = \emptyset$$
 , $\lambda_i \neq \lambda_j$

Collectively Exhaustive

Partition

A1 --- An Ol Mutually Exclusive Story H Collectively Exhaustive Story.

Jut cov	he				Event	
ony	possible	noithreed o	of	experiment.	set of our	mes
•					of experime	~ +.

Sample Space
finest-grain, mutually exclusive, collectively exhaustive
set of ALL possible outcomes.

- For any even+ A, PCA] 30
- P[S]=1
- A, "... An Mutually exclusive of those

 PCA, UA_2U---UA_n7= PCA,7+PCA,7+ --- +PCA,n7
- PCØ]=0
- P[AC] = 1-P[A]
- 일반적인 7年, PCAUB] = PCA]+PCB] PCAOB]
- ACB 007, P[A] < P[B]

- Axiams

- ·PCAIB] >0
- 1 = [A] A] 9.
- P[A|B]= P[A, |B] + P[A=1B] + ··· + P[An|B] A, ~ Ant Portition.

Total Prabability

For any event A, partition & B1, ... Bm3

with PCBi] >0

Independence

- PCANBJ=PCAJ. PCBJ, A and B is Independent.
- ロジャナストン・ハイルコ = PCA、コ・・・・アレイルコ ら ではままりになる。 independent

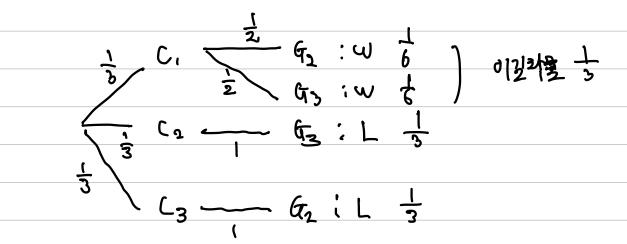
Tree diagrams

- Mouty Hall

Wi和多数品

L GOZZE

くし世界 はず、まれず 中平礼後もつ



시번원 선택, 공개화 바꿈 >

Country Methods.

- n choose $k : \binom{n}{k}^2$	K;(4-6);	,K=0, n
	0	Otherwise.

- Multinomial Coefficient:

$$(N_0,...,N_{m-1}) = \frac{N_0!N_1!...N_{m-1}!}{N_0!N_1!...N_{m-1}!} \frac{N_1 = \{0,1,...,N_1,L=0,...,M_-\}}{N_1 = \{0,1,...,N_1,L=0,...,M_-\}}$$

Independent Trials

$$-P[E_{n_0,n_1}] = {n \choose n_1} p^{n_1} ((-p)^{n-n_1} = {n \choose n_0} ((-p)^{n_0} p^{n-n_0})$$

Multinomial Coefficient