POISSON PROCESS

RATE 1

E[T] = 1

· MEMONTLESS

P(T < 10 mm | T) 5 mm) = P(T(Smir)

· RACING

2 processes, Λ , Λ_2

FIRST 40 OCCUR HAS PATE 1,+72

 $E[T_{First}] = \frac{1}{2.42}$

717 INNING

1 process with care 2,

EVENT IS A OR B WITH PROBABILITY

PA, PB=1-PA, THEN

A IS POUSON WITH PATE XPA

13 15 POISSON WIMM CATE

CASE 0: 1 MUVATION

 $E[T] = \frac{1}{x}$ PNA The yri CASE 1: ETIMER $\mathcal{A} = \mathcal{R}_0 + \mathcal{R}_0$ $\mathcal{A} = \mathcal{R}_0 + \mathcal{R}_0$ $\mathcal{E}[T_{\text{FIMIT}}] = \frac{1}{2}\mathcal{R}$ = 0.5 g= 0,5yr CASE 2: BOTH E[TBOTH] = 7. (·1 gr 7. (1,2) gr 7. 2g 1.5m ->2g ->2g

DISCRETE TIME MARKON CHAN

$$\vec{p}_{t+1} = M \cdot \vec{p}_{t}$$

$$M = \begin{bmatrix} P_{t+1} & P_{t+1} &$$





