

















































Randomized random walk 1/2		
Let	$N\left(t ight)=N_{E}\left(t ight)+N_{I}\left(t ight)\sim Poisson\left(\lambda ight)$	
and indicate		
$p_{m}\left(t\right)=P\left(V\left(t\right)=m\left V\left(0\right)=0\right.\right)$ . $m=0,\pm1,$		
We have:		
$P\left(V\left(t+\Delta t\right)-V\right)$	$V(t) = 1   N(t + \Delta t) - N(t) = 1 ) =$	$\frac{\lambda_E}{\lambda} + o(\Delta t) \stackrel{\circ}{=} p$
$P\left(V\left(t+\Delta t ight)-V\left(t ight)=-1\left N\left(t+\Delta t ight)-N\left(t ight)=1 ight) ight) = rac{\lambda_{I}}{\lambda}+o\left(\Delta t ight)=q.$		
with $p+q=1$ and		
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