

### 8.1: Pure Jump Processes:

$$T_1 \overset{\rightarrow}{<} T_2 \overset{\rightarrow}{<} \dots := \text{point of time of the events}$$

$S(x) = S(0) + \sum_{i=1}^k J_i = S(T_k)$  for  $x \in [T_k, T_{k+1})$  where:  $T_k = \sum_{i=1}^k \Delta t_i$ ,  $k=1, 2, \dots$  • Criterion for regularity:  $\sum_{i=1}^{\infty} \Delta t_i$  where  $T_0=0$ ;  $T_{\infty}=\infty$  no divergence w/ prob. = 1  
 (8.2)

Proof.

∴ The corresponding stationary measure:  $I_B^{(i)} = \lim_{\tau \rightarrow \infty} I_B^{(i)}(\tau) = h(i, \vec{A}(x)) - h(0, \vec{A}(x))$