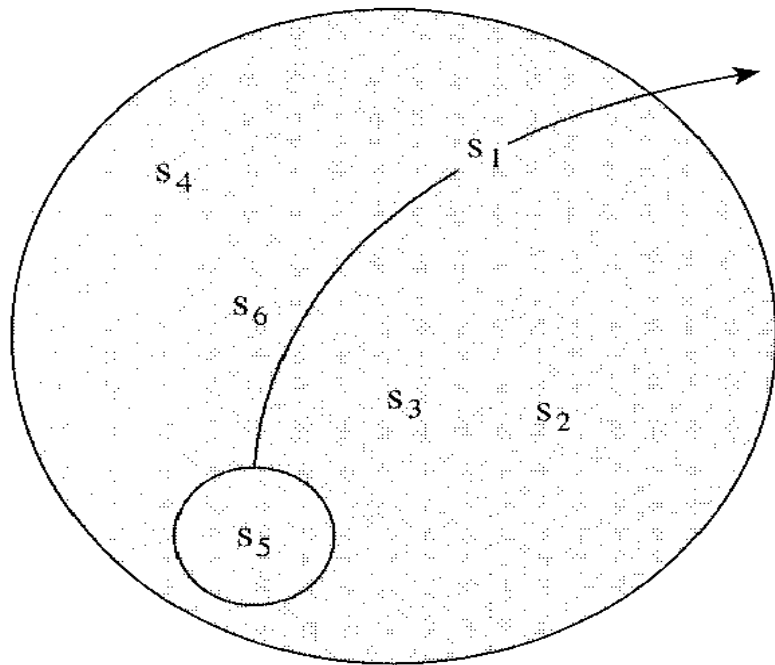


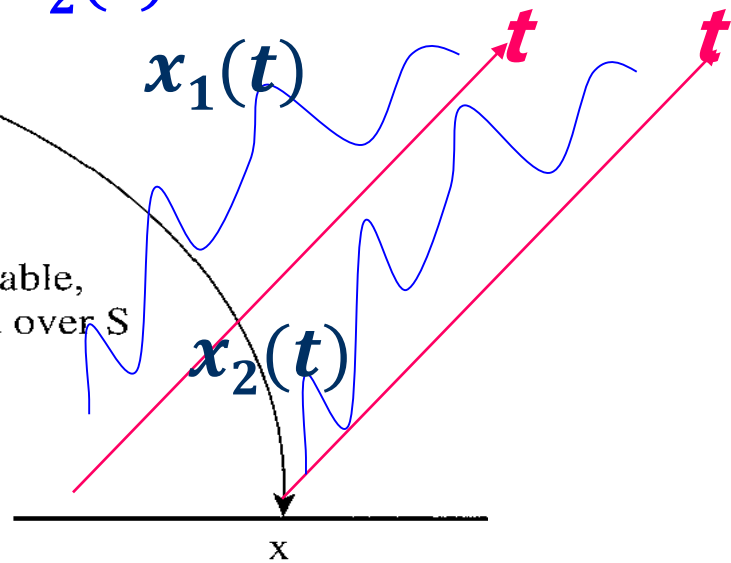
$$X(t, s_1) = x_1(t)$$

$$X(t, s_5) = x_2(t)$$



Sample space,  $S$ , with outcomes  $s_i$ .  $S$  is the domain of  $X$ .

Random variable,  $X(s)$ , defined over  $S$



Real line, which is the range of  $X$ .