

disjoint vs. independent



Dr. Mine Çetinkaya-Rundel Duke University two events that are
disjoint
(mutually exclusive)
cannot happen
at the same time

two processes are
independent
if knowing the outcome
of one
provides no useful
information about the
outcome of the other

$$P(A \text{ and } B) = 0$$

$$P(A \mid B) = P(A)$$

