

Events	Sets	Symbol
event	set	$E$
certain event	sample space	$\Omega$
impossible event	empty (null) set	$\emptyset$
implies	inclusion (subset)	$E_1 \subseteq E_2$
equality	equality	if $\begin{cases} E_1 \subseteq E_2 \\ \text{and} \\ E_2 \subseteq E_1 \end{cases} \Rightarrow E_1 = E_2$
complement	complement	$\overline{E}$ $E \cup \overline{E} = \Omega$ $\overline{\Omega} = \emptyset, \overline{\emptyset} = \Omega$
logical product	intersection	$E_1 \cap E_2$
logical sum	union	$E_1 \cup E_2$
incompatible events	disjoint sets	$E_1 \cap E_2 = \emptyset$
complete class	complete set	$\begin{cases} E_i \cap E_j = \emptyset \forall i \neq j \\ \bigcup_i E_i = \Omega \end{cases}$

*During the lecture we used the symbol  $S$  instead of  $\Omega$  !*

