

MOTION

The following denotations shall be used:

\mathbb{R} the set of real numbers.

$\overline{\mathbb{R}}$ $\overline{\mathbb{R}} := \mathbb{R} \cup \{-\infty, +\infty\}$.

\mathbb{IR} the set of nonempty, closed and bounded real intervals.

$\overline{\mathbb{IR}}$ the set of closed real intervals, including unbounded intervals and the empty set.

\mathbb{F} the set of (finite) floating-point numbers representable in some floating-point format.

$\overline{\mathbb{F}}$ $\overline{\mathbb{F}} := \mathbb{F} \cup \{-\infty, +\infty\}$.

\mathbb{IF} the intervals of \mathbb{IR} whose bounds are in \mathbb{F} .

$\overline{\mathbb{IF}}$ the intervals of $\overline{\mathbb{IR}}$ whose bounds are in $\overline{\mathbb{F}}$ and the empty set.