

Tableau 5

Towards an axiomatic theory of probability
The abstract probability space

Outcomes

SAMPLE SPACE

Events

MEASURABLE SETS

Chance

PROBABILITY MEASURE

Outcomes

SAMPLE SPACE

Ω

Events

MEASURABLE SETS

\mathcal{F}

Chance

PROBABILITY MEASURE

P

Outcomes

SAMPLE SPACE

Ω

Events

MEASURABLE SETS

\mathcal{F}

Chance

PROBABILITY MEASURE

\mathbb{P}

The Probabilist's Trinity