

Introduction and summary; Mathematical developments; The canonical form of a binary experiment; Simple binary experiments; The partial ordering of simple binary experiments; Mixtures of simple binary experiments; Decomposition theorem for binary experiments; The partial ordering of binary experiments; Inference methods with probabilistic justifications; On the mathematical treatment of statistical inference problems; Two-decision problems; tests of statistical hypotheses; Multi-decision problems; tests based on critical levels; Inference methods with intrinsic justifications; Evidential interpretations of outcomes; Symmetric simple binary experiments; Symmetric binary experiments; Binary experiments in general; Inferences based on the likelihood function; Appraisal and design of experiments for informative inference; Relations between statistical evidence and significance tests; Discussion; Relations of statistical evidence to prior information and to conclusions; References and acknowledgments; The algebra of statistical experiments

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