

Abstract for the EMPG 1999 Meeting in Mannheim

Mathematical Psychology and Psychophysics

Jean-Claude Falmagne

Department of Cognitive Sciences

University of California at Irvine

CA 92697-5100 Irvine, USA

jcf@aris.ss.uci.edu

The impact of mathematical psychology on the theory and practice of psychophysics was via three topics: measurement theory, stochastic processes, and functional equations. The talk will briefly review the role of each, with a special emphasis on the latter. Some recent functional equation results concerning the so-called Fechner-Thurstone and Gain Control representations, in the framework of a near-miss-to-Weber's Law equation, will be described.