

**David Pollard** 

of Fisher information

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Comments:Contribution to a volume in honor of Jon Wellner's 65th birthday (revised)Subjects:Statistics Theory (math.ST); Probability (math.PR)Cite as:arXiv:1107.3797 [math.ST](or arXiv:1107.3797v2 [math.ST] for this version)

Some connections with Le Cam's theory for convergence of experiments are noted.

(Submitted on 19 Jul 2011 (v1), last revised 20 Apr 2012 (this version, v2))

A note on insufficiency and the preservation

Kagan and Shepp (2005, Amer. Statist.) presented an elegant example of a mixture model for which

differentiability in quadratic mean to provide another explanation for the phenomenon they observed.

an insufficient statistic preserves Fisher information. This note uses the regularity property of

## Submission history

From: David Pollard [view email] [v1] Tue, 19 Jul 2011 18:25:39 GMT (92kb,D) [v2] Fri, 20 Apr 2012 19:31:05 GMT (97kb,D)

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