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## On Fisher Information Inequalities and Score Functions in Non-invertible Linear Systems

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Abstract:

In this note, we review score functions properties and discuss inequalities on the Fisher Information Matrix of a random vector subjected to linear noninvertible transformations. We give alternate derivations of results previously published in [6] and provide new interpretations of the cases of equality.

[6] R. ZAMIR, A proof of the Fisher information matrix inequality via a data processing argument, *IEEE Trans. on Information Theory, IT*, **44**(3) (1998), 1246-1250.



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