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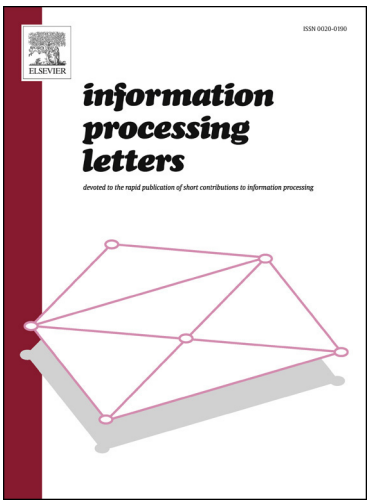

The Corruption Bound, Log-Rank, and Communication Complexity

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PII: S0020-0190(18)30182-0
DOI: https://doi.org/10.1016/j.ipl.2018.09.004
Reference: IPL 5735

To appear in: *Information Processing Letters*

Received date: 10 October 2016
Revised date: 19 August 2018
Accepted date: 13 September 2018

Please cite this article in press as: A. Shraibman, The Corruption Bound, Log-Rank, and Communication Complexity, *Inf. Process. Lett.* (2018), https://doi.org/10.1016/j.ipl.2018.09.004

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Highlights

- We give simple proofs for the upper bounds on deterministic communication complexity proved by Gavinsky and Lovett.
- We also give an elementary proof for the upper bound on communication complexity in terms of rank proved by Lovett.
- Our bounds are in terms of the a simple version of the corruption bound, which seems to capture the heart of these proofs.
- Our version of the corruption bound seems interesting in its own right.

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