

## Review-6

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### Dependence Measures Bounding the Exploration Bias for General Measurements

Generalization bounds have played a significant role in strengthening learning algorithms. However, their development in settings related to control measurements and adaptive data analysis remain scant. To that end, the work proposes a novel generalization bound based on  $\phi$ -divergences which generalizes to long-tail distributions which arise in most practical learning scenarios such as controlling measurements and reinforcement learning.