

Final Recitation – Information Theory, Application.

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Introduction

- ▶ Brief overview of the topic
- ▶ Importance and relevance
- ▶ Objectives of the presentation

Key Points

- ▶ Main point 1
- ▶ Main point 2
- ▶ Main point 3

Your Title Here

Claim

Let Y be a bit given by moving X through $\text{BSC}(p)$. Then:

$$1 - H(Y) \leq (1 - p^2) (1 - H(X))$$

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Claim

Let $Y = (Y_1, Y_2, \dots, Y_m)$ be a bit given by moving each of $X_i \in X = (X_1, X_2, \dots, X_m)$ through $\text{BSC}(p)$. Then:

$$m - H(Y) \leq (1 - p^2) (m - H(X))$$

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$$m - H(Y_1, Y_2, \dots, Y_m) = m - \sum_i H(Y_i | Y_1, Y_2, \dots, Y_{i-1})$$

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