





- (Broadly) Algorithms & Information Theory

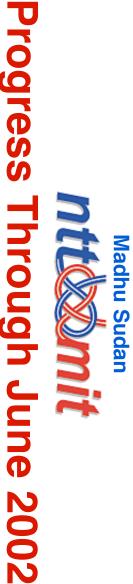
(Focus) Algorithms for error-correction

- Using list-decoding

To correct errors in communication media

- More errors
- More efficiently
- For more codes







Locally testable codes

- A new definition
- Existential results
- Impossibility results
- Decoding more errors
- Beyond the list-decoding barrier?
- Random errors
- Award: Sprowl Award Guruswami Thesis







Research Plan for the Next Six Months



- More efficient algorithms for list-decoding
- Watermarking applications
- Tree Codes
- New issues:
- Constructions of locally testable codes.
- Asymptotically good locally testable codes?