

Main Idea Derandomize

- We don't need to preserve the distribution of Sx

- Preserves only the properties of Sx we need

• Small space algorithm never outputs these properties

• Can use PRGs that fold smaller space algorithms

• Fastest hash function evaluation!

Main Ideas to Derandomize

- We don't need to preserve the distribution of Sx
- Preserve only the properties of Sx we need
- Small space algorithm now only outputs these properties
 - Can use PRGs that fool smaller space algorithms
 - Faster hash function evaluation!

Next Steps : Streaming