Decoding distortions using frequency analysis

Julia Hesse (TU Darmstadt)
The setting
The problem
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Generic solutions are bad

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Observation: low entropy!

Can you please explain the complicated part of your proof again?
Observation: low entropy!

Can you please explain the complicated part of your proof again?

→ Just explain whole proof again! ✓
Observation: low entropy!

Can you please explain the complicated part of your proof again?

→ Just explain whole proof again! ✓
→ our approach: decode only crucial words
Decoding techniques
Decoding techniques
Our Results
Our Results

SAVE THE NATION
Our Results

WHERE'S THE STATION?

SAVE THE NATION
Our Results

WHERE'S THE STATION?
U SHOULD TAKE SOME!
SAVE THE NATION
Our Results

WHERE'S THE STATION?
U SHOULD TAKE SOME!
SAVE THE NATION

Obfuscation
Our Results

Where's the station?
U should take some!
Save the nation

Where's Ted?
Poo is wet

Obfuscation
Our Results

WHERE'S THE STATION?
U SHOULD TAKE SOME!
SAVE THE NATION

WHERE'S TED?
POO IS WET

Obfuscation

Proof step
Our Results

Where's the station?
U should take some!
Save the nation

Where's Ted?
Poo is wet

East Rimini
Patricia tree
The fish's fee

Obfuscation

Proof step
Our Results

WHERE'S THE STATION?
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Obfuscation

Proof step

efficiency
Our Results

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Obfuscation

Proof step

efficiency

90% covered
Questions?

inspired by Manu D.