

Title of the talk

Proseminar “XY”

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Technische Universität München

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Observation 1

Analyzing biological sequences for their statistical properties can lead to interesting conclusions:

- Coding vs. non-coding regions (CpG content, entropy, ...)
- Species identification
- Number and length of repeats

Observation 2

Many algorithms and data structures depend on statistical properties of the underlying sequence:

- Algorithms for sequence assembly: repeats
- Suffix tree: repeats
- q -gram index: number and distribution of q -grams
- Compressed index structures: entropy

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- Thank you!

- Questions?

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