

# Introduction to Theoretical CS

## Obsah

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- Logic

Theoretical computer science study the mathematical solution of computer science – algorithms, computational complexity, formal languages and so on.

# Logic

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The notation for **sequent**  $\Gamma = B_1, \dots, B_n \vdash A$  means that the sequence  $\Gamma$  of propositions  $B_1, \dots, B_n$  proved the conclusion  $A$ . Logic uses several **logical connective** – conjunction,

We have several logical postures: **assumptions** of sequents, **introduction of conjunction**  $\wedge_i$  and **elimination of conjunction**  $\wedge_e$ .