

Consistency strength hierarchies

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What is consistency strength?

$$X \leq_{\text{H}} Y \iff \vdash_{\text{B}} (\text{Con } Y \Rightarrow \text{Con } X)$$

$$X \leq_{\text{cc}} Y \iff \text{cc}(X) \subseteq \text{cc}(Y)$$

Some simple results

- Maximum and minimum
- Disjunction and conjunction
- Transitivity
- Sufficient condition

Some more results

- Density
- Non-linearity
- Ill-foundedness
- Difference of definitions

Thank you for listening

Any questions?