



## Nonmonotonic Reasoning

Winter Semester 2017/18

### Exercise Sheet 10 – Inf. relations, expansions

19th January 2018

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**Exercise 10.1** Pick 7 properties for inference relations defined in the lecture. Determine which of these properties hold for the credulous inference relation  $\vdash_{D,Cre}$  for default theories.

Give proofs or counterexamples.

**Exercise 10.2** We turn to belief revision, more precisely to expansions.

Show that  $T_{\varphi \wedge \psi}^+ = (T_{\varphi}^+)^+_{\psi}$ .