

# Deduction Systems

## Tutorial ASP (on July 2nd)

Sarah Gaggl

SS 2015

### Exercise 1:

Apply the CDNL Algorithm to the program  $P$  to trace the stable model  $\{b, c, d, e\}$ . Highlight the steps of the nogood propagation, unfounded set checking and (if needed) conflict analysis.

$$P = \{a \leftarrow \text{not } b; \quad c \leftarrow a; \quad d \leftarrow b, c; \quad e \leftarrow b, \text{not } a; \\ b \leftarrow \text{not } a; \quad c \leftarrow b, d; \quad d \leftarrow e; \quad e \leftarrow c, d\}$$