

$$C_5 = \text{Res}(C_1, C_2) = q \vee r$$

$$C_6 = \text{Res}(C_1, C_3) = r \vee q$$

$$C_7 = \text{Res}(C_1, C_4) = r \vee q$$

$$\text{Res}(C_2, C_{3-4}) = \text{NL}$$

$$\text{Res}(C_3, C_4) = \text{NL}$$

$$\bar{S}^1 = \{C_5, C_6, C_7\}$$

$$\text{Res}(C_5, C_1) = \text{NL}$$

$$\text{Res}(C_5, C_2) = \text{NL}$$

$$C_8 = \text{Res}(C_5, C_3) = r$$

$$C_9 = \text{Res}(C_5, C_4) = q$$

$$\text{Res}(C_5, C_6) = \text{NL}$$

$$\text{Res}(C_5, C_7) = \text{NL}$$

$$\text{Res}(C_6, C_1) = \text{NL}$$

$$C_8 = \text{Res}(C_6, C_2) = \text{NL}$$

$$\text{Res}(C_6, C_3) = \text{NL}$$

$$C_{10} = \text{Res}(C_6, C_4) = r$$

$$\text{Res}(C_6, C_5) = \text{NL}$$

$$\text{Res}(C_6, C_7) = \text{NL}$$

$$C_9 = \text{Res}(C_7, C_2) = q$$

$$C_{10} = \text{Res}(C_7, C_3) = r$$

$$\text{Res}(C_7, C_1) = \text{NL}$$

$$\text{Res} \begin{pmatrix} C_7, C_4 \\ C_5 \\ C_6 \end{pmatrix} = \text{NL}$$

$$\bar{S}^2 = \{C_8, C_9, C_{10}\}$$

$$\text{Res}(C_8, C_4) = \text{clauza vidă}$$

$$\text{Res}(C_9, C_3) = \text{clauza vidă}$$

$$\text{Res}(C_{10}, C_2) = \text{clauza vidă}$$

$$\text{Restul } \text{Res}(C_n, C_i), \text{ cu}$$

$$n \in \{8, 9, 10\} \text{ și } i = \overline{1, 10} \text{ sunt egale cu NL}$$

$\Rightarrow S$  este inconsistentă pe baza  
TCC, relația s-o loc



## Strategien saturation minimal

$$9.1 \text{ 9.1}^* \neg p \rightarrow (\neg q \rightarrow r) \models (\neg p \rightarrow q \vee r)$$

$$S_1 = \neg p \rightarrow (\neg q \rightarrow r) *$$

$$\equiv \neg \neg p \vee (\neg \neg q \rightarrow r)$$

$$\equiv p \vee (\neg \neg q \rightarrow r)$$

$$\equiv p \vee (\neg \neg q \vee r) \models p \vee q \vee r$$

$$S_2 = \neg (\neg p \rightarrow (q \vee r))$$

$$\equiv \neg (\neg \neg p \vee q \vee r)$$

$$\equiv \neg p \wedge \neg q \wedge \neg r \Rightarrow S_2 = \{\neg p, \neg q, \neg r\}$$

$$S = S_1 \cup S_2 = \{p \vee q \vee r, \neg p, \neg q, \neg r\}$$

$$C_1 = p \vee q \vee r$$

$$C_2 = \neg p$$

$$C_3 = \neg q$$

$$C_4 = \neg r$$