

It holds for all LTL formulas a and b .

$$\neg(\neg b \cup (\neg a \wedge \neg b)) \wedge Fb$$

$$\equiv \neg(\neg b \cup \neg(a \vee b)) \wedge Fb$$

$$\equiv b R (a \vee b) \wedge Fb \quad (R \text{ is Release operator})$$

$$\equiv a W b \wedge Fb \quad (W \text{ is Weak until operator})$$

$$\equiv a \cup b$$