

## change-lemma<sup>0,22</sup>

$\forall es:\text{ES}, x, i:\text{Id}, T:\text{Type}.$   
 $(\forall x, y:T. \text{Dec}(x = y \in T))$   
 $\Rightarrow \text{vartype}(i;x) \subseteq \rho T$   
 $\Rightarrow (\forall e', e:\text{E}.$   
     $e \leq e'$   
     $\Rightarrow \text{loc}(e') = i$   
     $\Rightarrow \neg(x \text{ after } e') = (x \text{ when } e) \in T$   
     $\Rightarrow (\exists ev:\text{E}. e \leq ev \ \& \ ev \leq e' \ \& \ \neg(x \text{ after } ev) = (x \text{ when } ev) \in T))$