

es-knows-stable^{0,22}

$$\begin{aligned} & \forall poss: (ES\{i\} \rightarrow Prop_i), R: (\text{possible-event}\{i:l\}(poss) \rightarrow \text{possible-event}\{i:l\}(poss) \rightarrow Prop_i). \\ & (\text{Trans } 1,2: \text{possible-event}\{i:l\}(poss). R(1,2)) \\ & \Rightarrow (\forall e_1, e_2: \text{possible-event}\{i:l\}(poss). \text{poss-le}\{i:l\}(e_1; e_2) \Rightarrow R(e_1, e_2)) \\ & \Rightarrow (\forall P: (\text{possible-event}\{i:l\}(poss) \rightarrow Prop_i), e_1, e_2: \text{possible-event}\{i:l\}(poss). \\ & \quad \text{poss-le}\{i:l\} \\ & \quad \quad (e_1; e_2) \\ & \Rightarrow \text{es-knows}\{i:l\} \\ & \quad \quad (poss; R; P; e_1) \\ & \Rightarrow \text{es-knows}\{i:l\} \\ & \quad \quad (poss; R; P; e_2)) \end{aligned}$$