

# EQUIVALENCE EXAMPLE

$$e_1 = \text{send}(a, 1)$$

$$e_2 = \text{send}(a, 2)$$

$$e_3 = \text{seq}(\text{send}(a, 1), \text{send}(a, 2))$$

$$e_4 = \text{seq}(\text{send}(a, 2), \text{send}(a, 1))$$

$$O = \emptyset, [\text{ready}(\lambda n. \text{if}(n=1, \text{event}(), \text{ready}(\text{sink})))]_a \parallel \emptyset, [\square]_{a'}$$

$$O' = \emptyset, [\text{ready}(\lambda n. \text{if}(n=2, \text{event}(), \text{ready}(\text{sink})))]_a \parallel \emptyset$$

$$O^* = \emptyset, [\text{ready}(\lambda n. \text{if}(n=1, \text{send}(a^*, \text{nil}), \text{ready}(\text{sink})))]_a \parallel \langle a^* \leftarrow \text{true} \rangle$$

$$[\square]_{a'}, [\text{ready}(\lambda b. \text{if}(b=\text{true}, \text{event}(), \text{ready}(\text{sink})))]_{a'}$$

$$\text{Obs} (0 \blacktriangleright e_1 \blacktriangleleft) =$$

$$\text{Obs} (0 \blacktriangleright e_2 \blacktriangleleft) =$$

$$\text{Obs} (0 \blacktriangleright e_3 \blacktriangleleft) =$$

$$\text{Obs} (0 \blacktriangleright e_+ \blacktriangleleft) =$$