## Review question 14

zondag 19 februari 2023

Note that adding the identity of the sender and the receiver to the messages does not change anything in this protocol.

There are two main reasons for this:

- 1. The identities are known to the attacker;
- 2. A does not authenticate themselves.

This time, the protocol would look as follows in SPI calculus:

$$P = \text{new } c$$
; out net  $(A, B, \{1CI\}_{Enc(B)})$ , in net  $\mathcal{R}$ ; whit  $\mathcal{R}$  is  $(\mathcal{A}_1, \mathcal{R}_2, \mathcal{R}_3)$ , if  $\mathcal{R}_1 = B$  the if  $\mathcal{R}_2 = A$  the if  $\mathcal{R}_3 = B$  the if  $\mathcal{R}_4 = B$  the if  $\mathcal{R}_4 = B$  the if  $\mathcal{R}_4 = B$  the decrypt  $\mathcal{R}_4 = B$  the if  $\mathcal{R}_4 = B$