## Example exercise 5

Tuesday, 28 April 2020 18.16

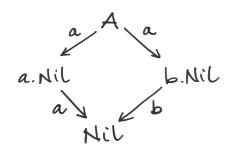
Find a distinguishing formula for the CCS expressions:

$$A = a.a. Nil + a.b. Nil$$
  
 $B = a. (a.Nil + b. Nil)$ 

Solution: A possible distinguishing formula (not the only one) for the processes A and B is

Intuitively meaning "there exists an a-transition leading to a state with no b-transitions".

Indeed, we have that



$$A = \langle a \rangle [b] ff$$

B al a, Nil + b. Nil a ( ) b Nil

B\ (a)[b]ff