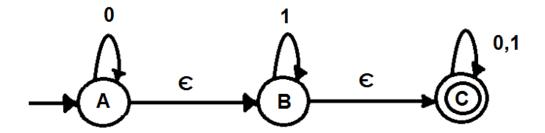


## **EPSILON NFA**



## NFA'S WITH E-TRANSITIONS

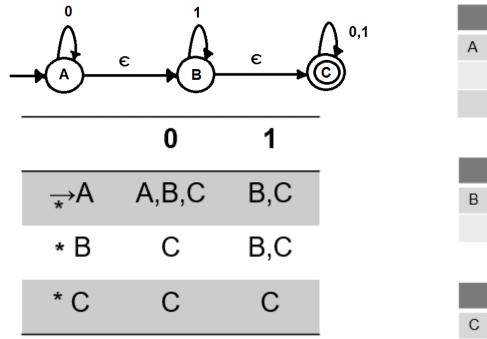
- We can allow state-to-state transitions on  $\varepsilon$  input.
- These transitions are done spontaneously, without looking at the input string.





## CONVERSION OF E-NFA TO NFA

 E-Closure(E\*) - All the states that can be reached from a particular state only by seeing the E symbol



	€*	0	€*
Α	Α	Α	A,B,C
	В	Φ	
	С	С	С

	€*	1	€*
Α	Α	Φ	
	В	В	B,C
	С	С	С

	€*	0	€*
В	В	Φ	
	С	С	С

	€*	1	€*
В	В	В	B,C
	С	С	С

	€*	0	€*
С	С	С	С

	€*	1	€*
С	С	С	С



## **EXAMPLE**

• Convert the following E-NFA into NFA

• 1. 2.

