03 Mai, 2016

#### Kodierer Information

- ► Nicht-Rekursiver Kodierer
- ► Anzahl von Ausgängen :

$$N = 2$$

► Anzahl von Registern :

$$M = 2$$

► Generatoren :

$$(7,5)_8 = \binom{111}{101}$$

► Kode-Rate:

$$\frac{1}{2}$$

#### Kodierer Matrix: Nächster Zustand

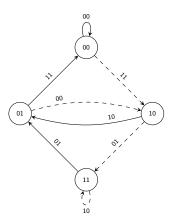
	Bit 0	Bit 1
Zustand 0	0	2
Zustand 1	0	2
Zustand 2	1	3
Zustand 3	1	3

# Kodierer Matrix : Ausgangsbits

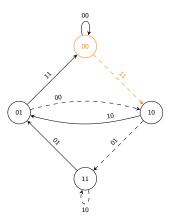
	Bit 0	Bit 1
Zustand 0	00	11
Zustand 1	11	00
Zustand 2	10	01
Zustand 3	01	10

input: (1, 0, 1, 0, 0)

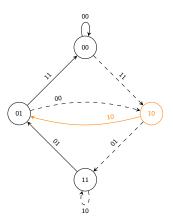
state input output next state



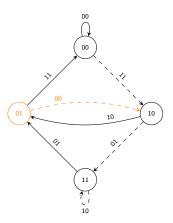
state	input	output	next state
00	1	11	10



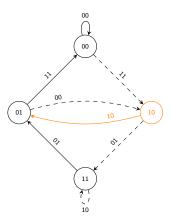
state	input	output	next state
00	1	11	10
10	0	10	01



state	input	output	next state
00	1	11	10
10	0	10	01
01	1	00	10



state	input	output	next state
00	1	11	10
10	0	10	01
01	1	00	10
10	0	10	01



input: (1, 0, 1, 0, 0)

state	input	output	next state
00	1	11	10
10	0	10	01
01	1	00	10
10	0	10	01
01	0	11	00

output: (0, 0, 0, 0, 0, 0, 0, 0, 0)

