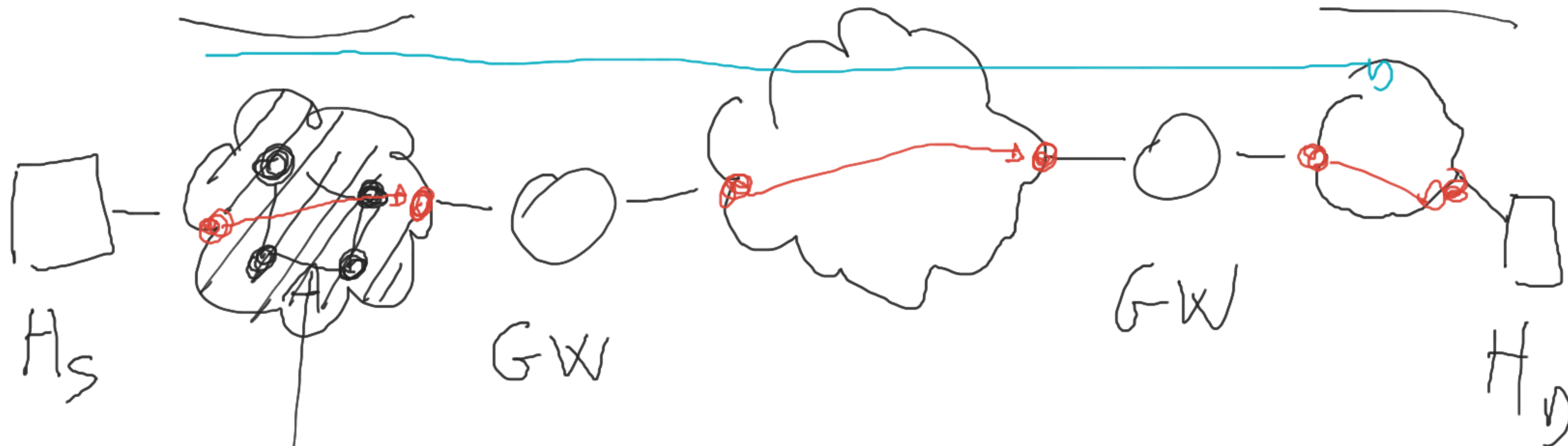


SAPIENZA

T117

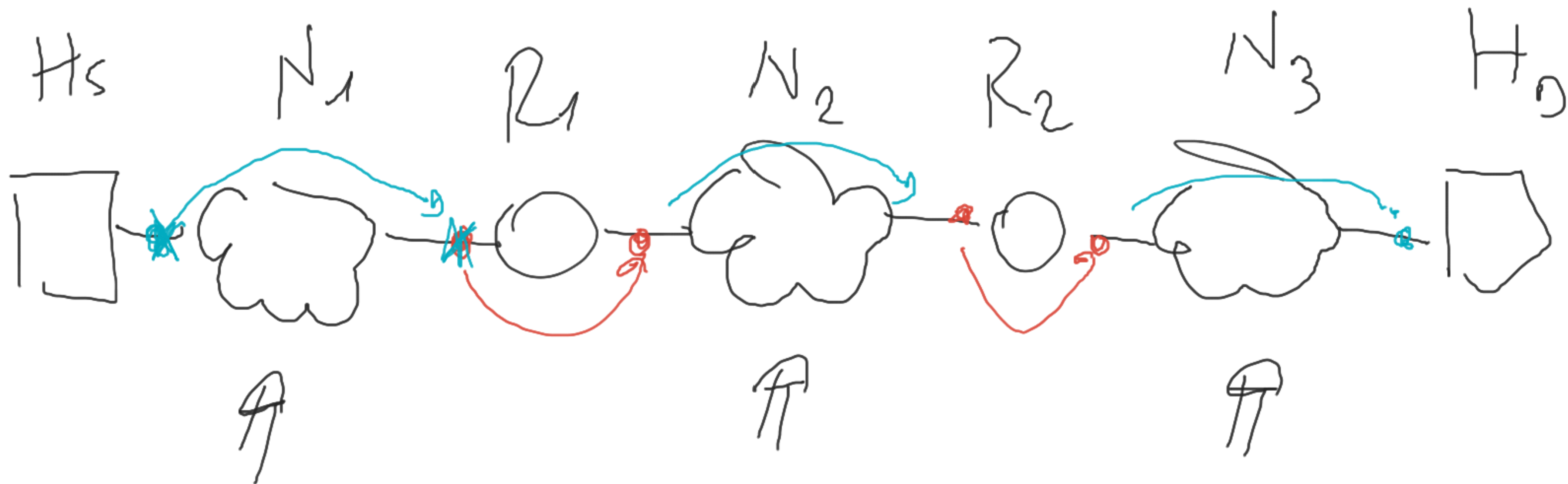
Polini

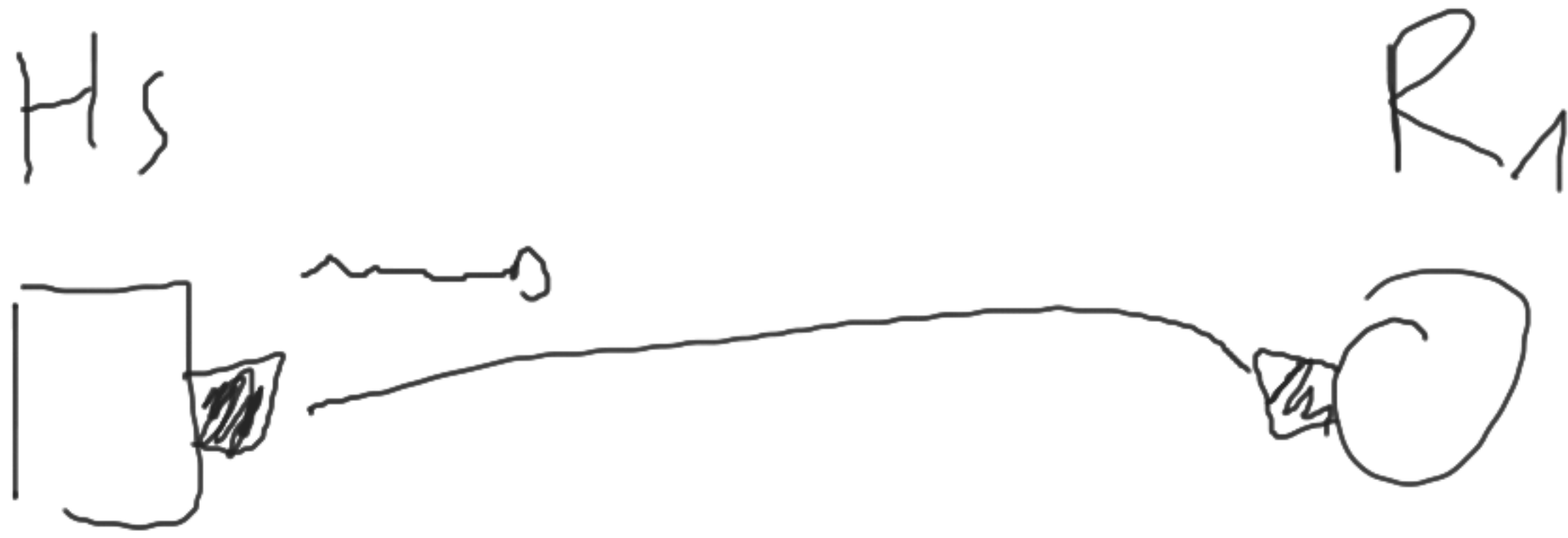


$INTOLA-AS$

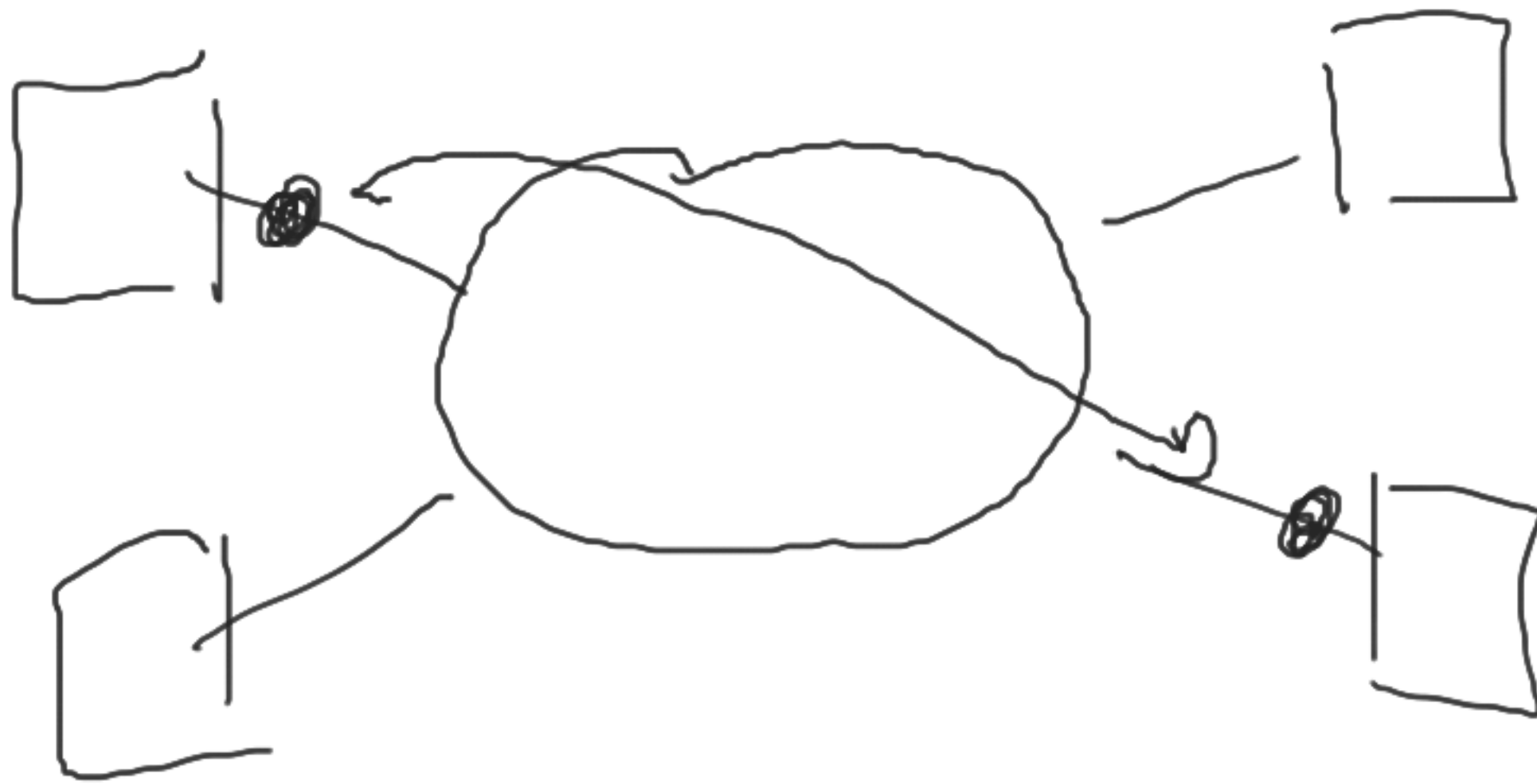
$INTOLA-AS$

5	APPL
4	TRANS
3	R373
2	LINK
1	FISIC





PUNTO - PUNTO



BROADCAST

A

B

PKT

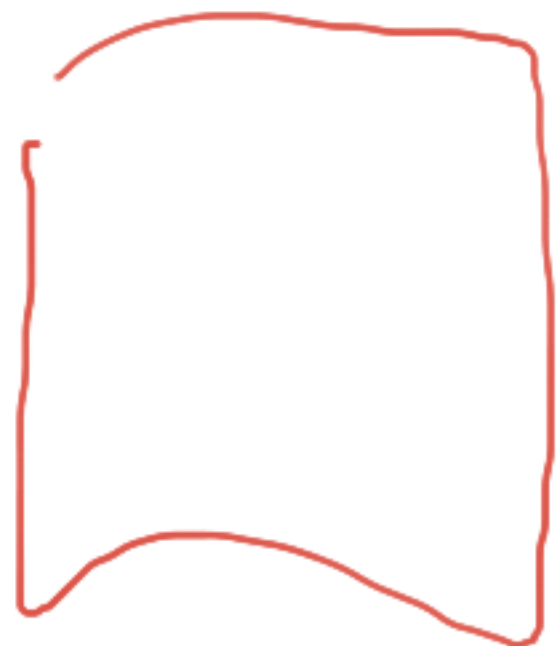
1111

1073

LINK

1111

FNAND



10 1 1 0 1 1 0 0 0 0 1

1373

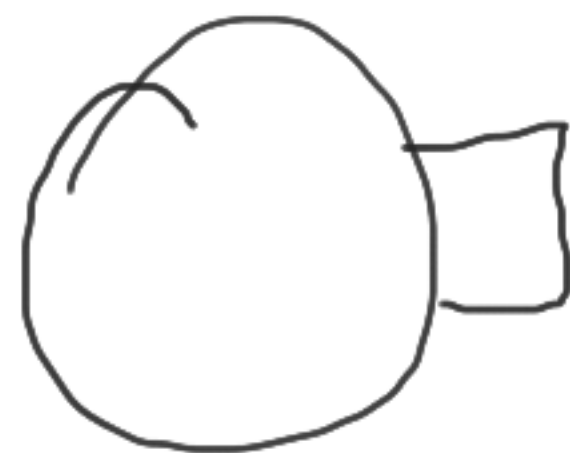
LINK



FNAND



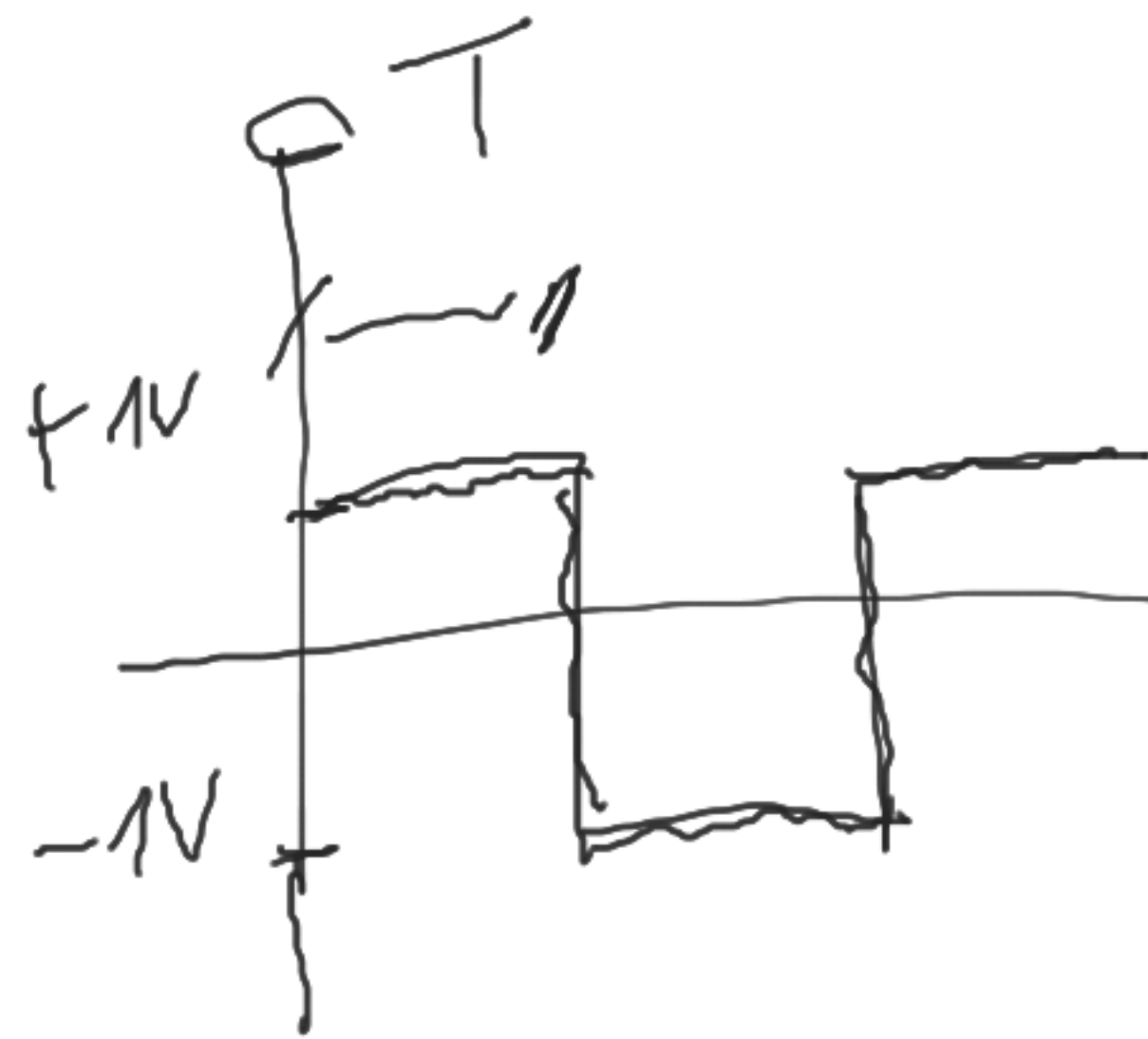
$R_1$



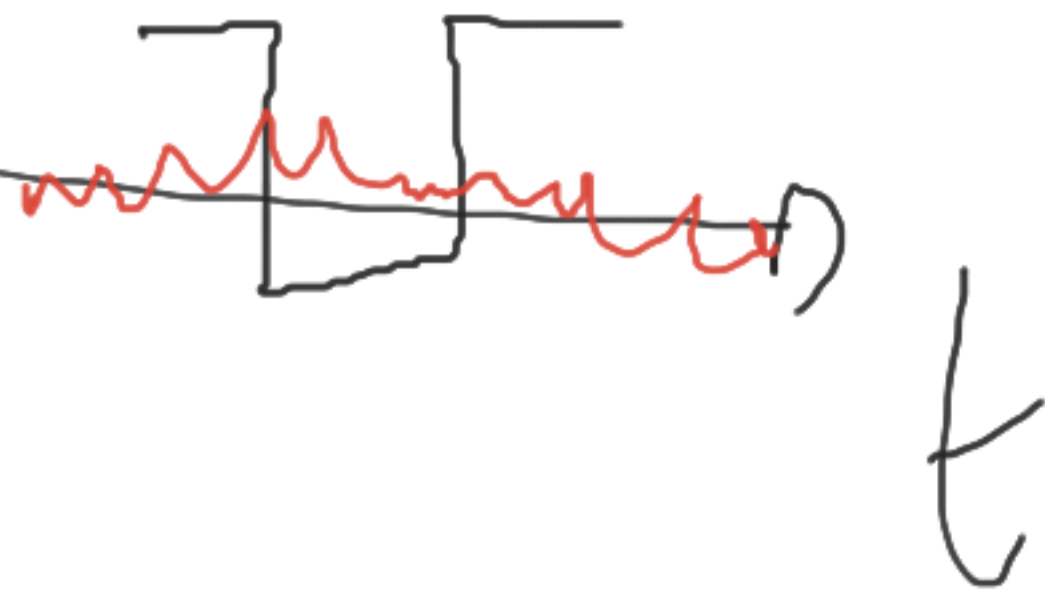
$R_2$



1 0 1



SNR



$$\overbrace{1 \ 0 \ 1 \ 1 \ 0 \ 1}^d = m$$

CRC

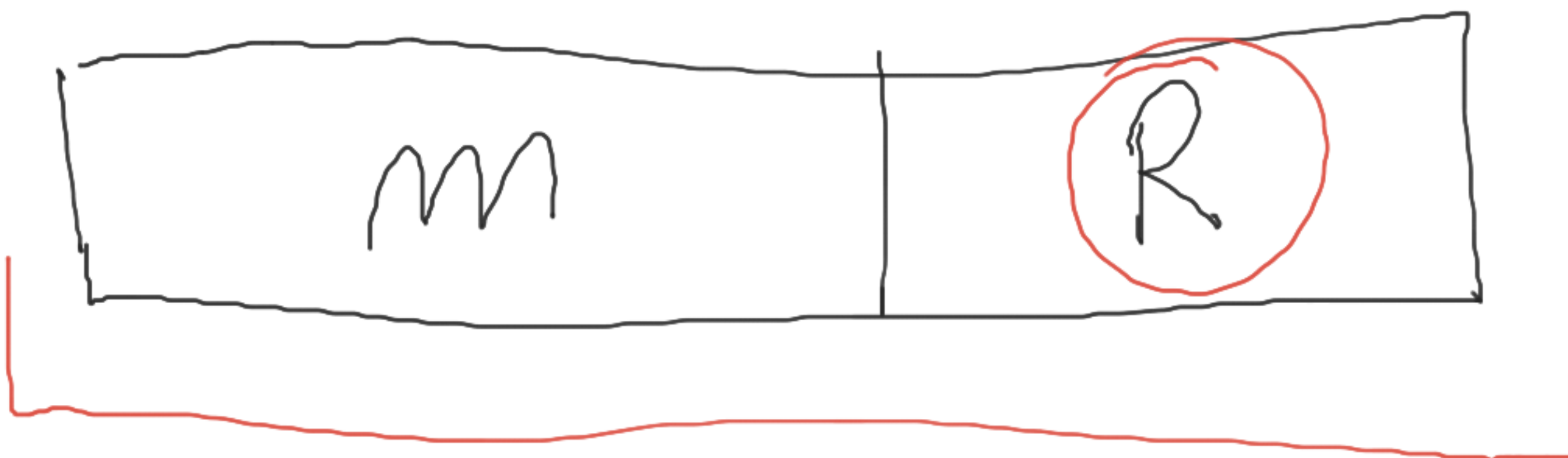
$$1 \cdot X^5 + 0 \cdot X^4 + 1 \cdot X^3 + 1 \cdot X^2 + 0 \cdot X^1 + 1 \cdot X^0$$



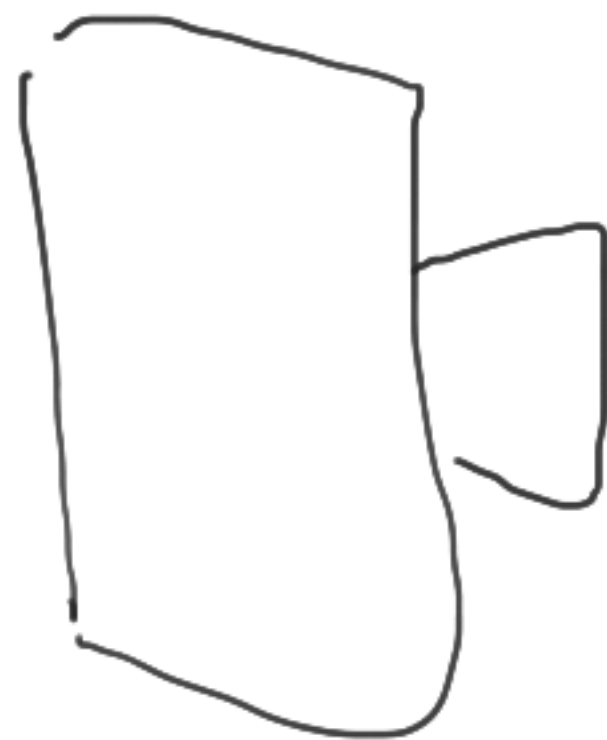
$g(x)$

$n$  bit

Polynomial Generator



$g(x)$



TX

$m | R$



$m' | R'$



RX

$g(x)$

$m' R' | g(x)$

$$m = 101110$$

$$g = 1001$$

$$n = 4 \text{ bit}$$

$$R = \begin{matrix} ? & ? \\ 0 & , \end{matrix}$$

$$n-1 = 3 \text{ bit}$$

$$m(x) \cdot x^{n-1}$$

$\overline{1 \quad 0 \quad 1 \quad 1 \quad 1 \quad 0 \quad 0 \quad 0 \quad 0}$

$x^8 \quad x^7 \quad x^6 \quad x^5 \quad x^4 \quad x^3 \quad x^2 \quad x^1 \quad x^0$

$x^8 \quad x^5$

$0 \quad 0 \quad x^6 \quad 0 \quad x^4$

$x^6 \quad x^3$

$0 \quad 0 \quad x^4 \quad x^3$

$x^4 \quad x$

$0 \quad \cancel{x^3} \quad \cancel{x^3} \quad x \quad 1$

$3 \quad x+1$

$5 \quad 3 \quad x+x+$

$+x+1$

$R = x + 1$

$1 \quad 0 \quad 1 \quad 1$

1      0      1

1		0		1		0		0
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└──────────┘

$$R-1=2$$

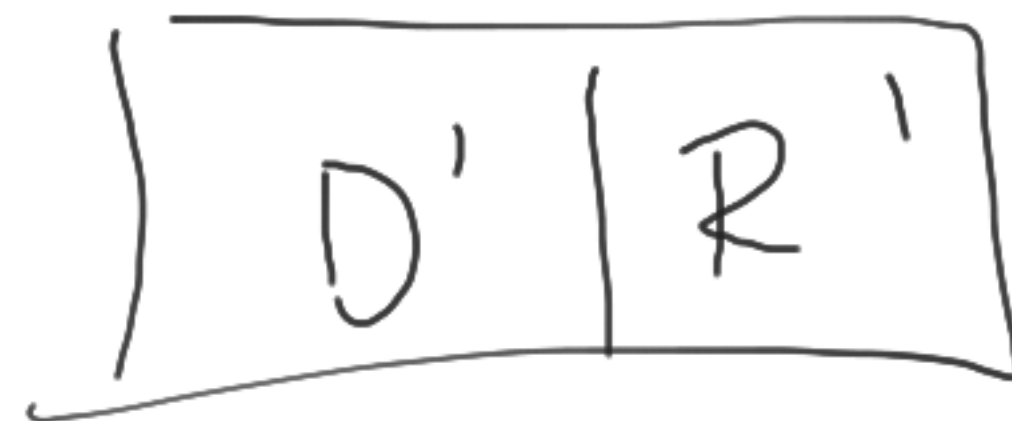
$R(x)$

$$R=3$$

$f(x)$



$f(x)$



$g(x)$

