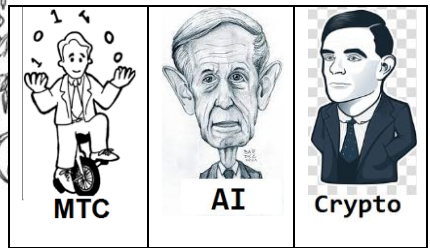
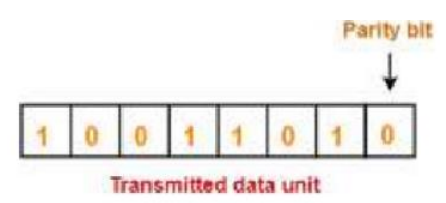
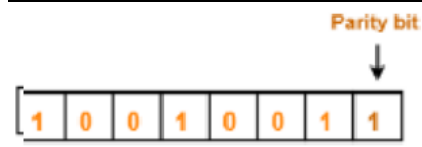
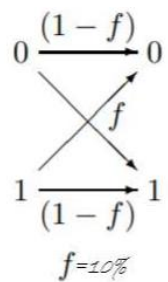
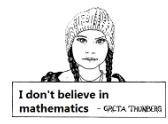


Sir Dr. D. MacKay,
University of Cambridge
(22 April 1967 – 14 April 2016)



"I believe in clean energy,
but I also believe in mathematics"



s ENCODER t CHANNEL r DECODER ŝ
f = 10%

Source sequence s	Transmitted sequence t
0	000
1	111

The repetition code R_3

source message s	t	n	r
0	000	000	000
0	000	001	001
1	111	000	111
0	000	000	010
1	111	101	111
1	111	000	111
0	000	000	000

corrected errors * undetected errors *

7.4. Hamming code.

$$\frac{4}{\Sigma} \rightarrow \frac{7}{t}$$

