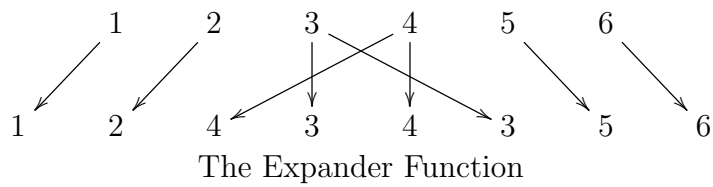


MATH 75: MATHEMATICAL CRYPTOGRAPHY

SDES



$$S_1 = \begin{pmatrix} 101 & 010 & 001 & 110 & 011 & 100 & 111 & 000 \\ 001 & 100 & 110 & 010 & 000 & 111 & 101 & 011 \end{pmatrix}$$

$$S_2 = \begin{pmatrix} 100 & 000 & 110 & 101 & 111 & 001 & 011 & 010 \\ 101 & 011 & 000 & 111 & 110 & 010 & 001 & 100 \end{pmatrix}$$

S -boxes