



A detailed diagram of the polar encoding operation, enclosed in an orange dashed box. It shows the multiplication of a vector of bits by a generator matrix. The input vector is a column of 8 elements: 0, 0, 0, b_0 , 0, b_1 , b_2 , and b_3 . The first three zeros are blue and labeled "K-N" with a diagonal slash, while the remaining elements are black and labeled "K" with a diagonal slash. The text "bits gelés" is written in blue next to the first three zeros. This vector is multiplied by an 8x8 generator matrix. The matrix has a top section of zeros and a bottom section of ones, with some zeros interspersed in the bottom section. The result of the multiplication is an 8x8 matrix of zeros and ones.

$$\begin{bmatrix} 0 \\ 0 \\ 0 \\ b_0 \\ 0 \\ b_1 \\ b_2 \\ b_3 \end{bmatrix}^T \times \begin{bmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 1 & 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & 1 & 1 & 0 & 0 \\ 1 & 0 & 1 & 0 & 1 & 0 & 1 & 0 \\ 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 \end{bmatrix}$$