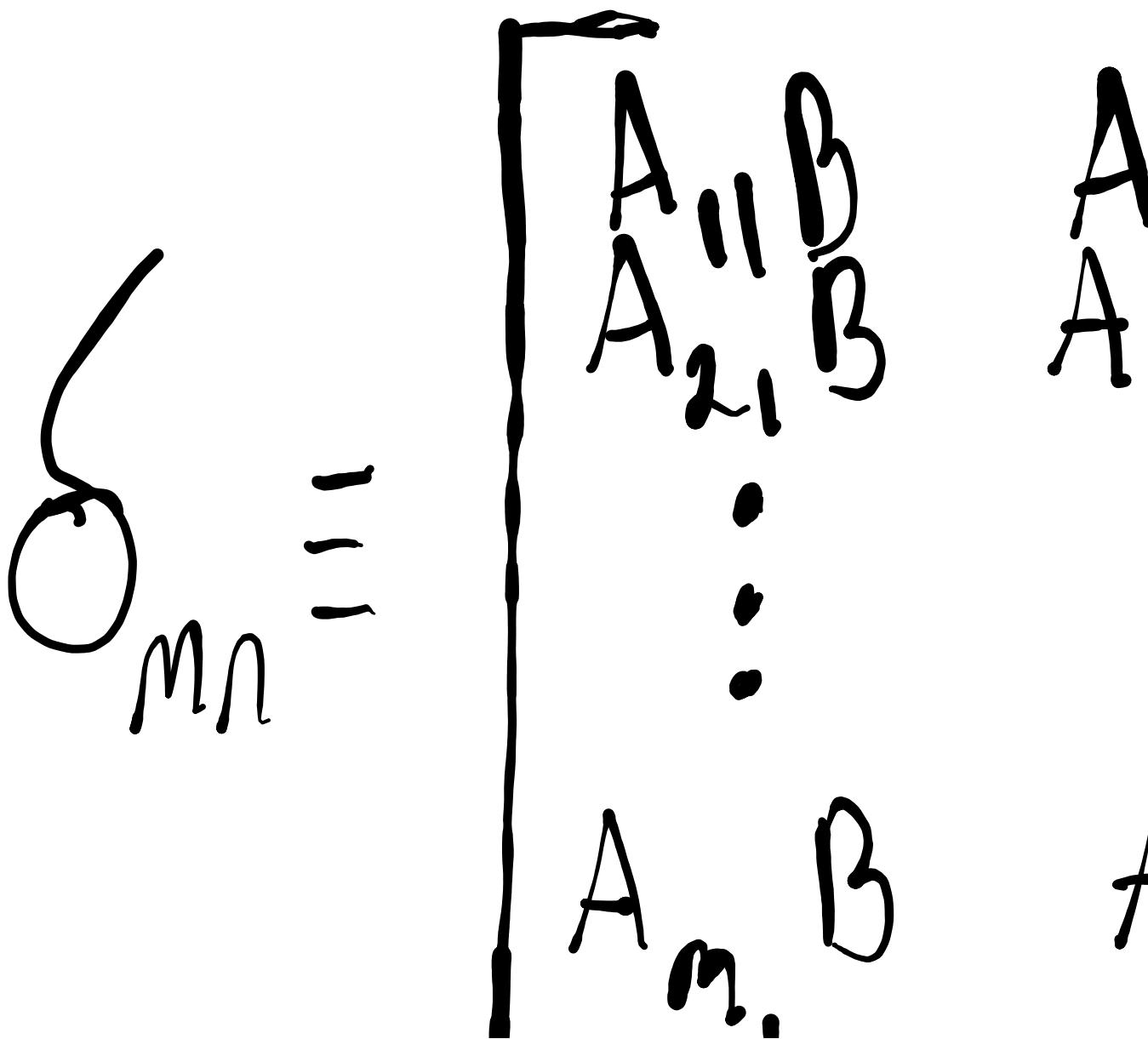


Tensor Product of Pauli X and Y Gates

Thursday, December 24, 2020 7:13 AM

the Kronecker Pr



product:

A_{11}	B	\dots	A_{1n}	B
A_{21}	B	\dots	A_{2n}	B
\vdots			\vdots	
A_{m1}	B	\dots	A_{mn}	B

U'

The Tensor Pr

$$\sigma_x = \begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$$

$$\sigma_y = \begin{bmatrix} 0 & -i \\ i & 0 \end{bmatrix}$$

The Knorr-Kor

~~Product of the Pauli~~

with orthonormal basis' $|0\rangle$

$$|0\rangle = i \begin{bmatrix} 0 \\ 1 \\ -1 \end{bmatrix} \quad \& \quad |1\rangle$$

Product of π, δ, σ