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$$A = \coprod S V^{\dagger}$$
 $S = p_{1AG}(G_{1},...,G_{P})$ $p = mm\{m,m\}$
 $6 \geq 6, \geq ... \geq 6p \geq 0$
 $S \in M^{m \times m}$

SE A E' BIACONAUZZABILE QUAIR NEIAZCONE C'E' FAA DIACONAUZZAXINI. E SVO

JUPPONIAMO A = AT SIMMETURA. QUINDI AMMETTE DIACONA NACZZAZIONE

X E' ONTOLONALE SE'DETERMINAMA A MENO DI X2 P Y2 i)PENNUTAZIONI DI COZONNE SAIMENO OVESTE 2 (1) CANDIO AS SECNO CONDIZIONI A \Rightarrow $A^{T}A$ $A = \begin{cases} A^{T}A \\ A = \end{cases} \begin{cases} A^{T}A \\ A = \end{cases} \begin{cases} A^{T}A \end{cases} \qquad \begin{cases} A^{T}A \\ A = \end{cases} \begin{cases} A^{T}A \end{cases} \qquad \begin{cases} A^{T}A \\ A = \end{cases} \begin{cases} A^{T}A \end{cases} \end{cases} = \begin{cases} A^{T}A \\ A = \end{cases} \begin{cases} A^{T}A \end{cases} \qquad \begin{cases} A^{T}A \\ A = \end{cases} \begin{cases} A^{T}A \end{cases} \qquad \begin{cases} A^{T}A \\ A = \end{cases} \begin{cases} A^{T}A \end{cases} \end{cases} \qquad \begin{cases} A^{T}A \\ A = \end{cases} \begin{cases} A^{T}A \end{cases} \qquad \begin{cases} A^{T}A \\ A = \end{cases} \begin{cases} A^{T}A \end{cases} \end{cases} \qquad \begin{cases} A^{T}A \\ A = \end{cases} \begin{cases} A^{T}A \end{cases} \qquad \begin{cases} A^{T}A \\ A = \end{cases} \end{cases} \qquad A^{T}A = \end{cases} \end{cases} \qquad \begin{cases} A^{T}A \\ A = \end{cases} \end{cases} \qquad A^{T}A = \end{cases} \qquad A^{T}A =$ i Gi = | KI PEN UNA CENTA PENMUTAZIONE i <= 2) 1=21 26-23 3 -22

$$A\left(\begin{array}{c|c} V1 & V2 & V_{M} \end{array}\right) = \left(\begin{array}{c} \times 1 & \dots & \times \\ \times 1 & \dots & \times \end{array}\right) \begin{pmatrix} 6_{1} & \dots & \\ 6_{m} & \dots & \\ M \times M \end{pmatrix}$$

$$M \times M$$

$$A\left(\begin{array}{c|c} V1 & \dots & V_{M} \end{array}\right) = \left(\begin{array}{c} \times 1 & \dots & \times \\ M \times M \end{array}\right) \begin{pmatrix} 6_{1} & \dots & \\ G_{m} & \dots & \\ M \times M \end{pmatrix} = \left(\begin{array}{c} \times 1 & \dots & \\ M \times M \end{array}\right) \begin{pmatrix} 6_{1} & \dots & \\ G_{m} & \dots & \\ M \times M \end{pmatrix} = \left(\begin{array}{c} \times 1 & \dots & \\ M \times M \end{array}\right) \begin{pmatrix} 6_{1} & \dots & \\ G_{m} & \dots & \\ M \times M \end{pmatrix} = \left(\begin{array}{c} \times 1 & \dots & \\ M \times M & \dots & \\ M$$

$$\frac{1}{m} \left(\frac{\sqrt{1}}{\sqrt{1}} \right) = \frac{1}{m} \left(\frac{\sqrt{1}}{\sqrt{1}} \right) = \frac{1}$$

$$61 = 100$$
 $62 = 50$
 $63 = 10$
 $64 = \frac{1}{100}$
 $60 = \frac{1}{100}$
 $60 = \frac{1}{100}$
 $60 = \frac{1}{100}$
 $60 = \frac{1}{100}$

$$m > 2$$
 $m > 4$

$$6z = 7$$

$$4 = \begin{pmatrix} 1 \\ 1 \\ 2 \\ 1 \end{pmatrix} \begin{pmatrix} y_1 & y_2 \\ 1 \end{pmatrix} = \begin{pmatrix} v_1 & v_2 \\ v_3 & v_4 \end{pmatrix} \begin{pmatrix} 6_4 & 0 \\ 0 & 6_2 \\ 0 & 0 \end{pmatrix}$$

$$A\left(\begin{array}{c|c} v_1 & v_2 & v_3 & v_4 \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{pmatrix} = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{pmatrix} = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_2 \\ \end{array} \right) \begin{pmatrix} 0 & 0 & 0 \\ \end{array} \right) = \left(\begin{array}{c|c} v_1 & v_$$