Completences relation: Pe ZEd = Z 174/741

ideality operator on D-dimensional space

(a) Expand 1742> = = = Coiles), Coi= <ei/742>

\ \langle Caj Cak = \langle \langle (9) \forall \langle \forall \langle \langl

= < \(\lambda | \lambda |

= (c, lek) = (dontity operator on) = [181)(8)

= Sik

projector adol

Didimensional

Subspace

 $||Cai|| = ||Cu|| Cus \cdot \cdot \cdot \cdot \cdot Cus \cdot ||Cus \cdot \cdot \cdot \cdot ||Cus \cdot \cdot \cdot \cdot ||Cus \cdot \cdot \cdot ||Cus \cdot \cdot \cdot \cdot ||Cus \cdot \cdot ||Cus \cdot \cdot ||Cus \cdot ||Cus \cdot \cdot |$

D Brothemarial Tack on an 2 monutes

additional N-D Enmulas Lamondo

NXN writary motive

Add N-D dimensions spanned by orthonormal rectors Notice that Pley = 0, de B+1 ..., N; 12 Dt.) , ..., len). i.e., P projects anto the eighbol D-dimensional Define an orthonormal basiis

This is a Neumer's extension of the POVM

(1) (s(a) in s + (a) (s(a) 80) = (m)

Restronvolt Jackers

$$E' = |\frac{1}{2} \times \frac{1}{2}| = \frac{1}{2} |\frac{1}{2} \times \frac{1}{2} |\frac{1}{2} \times \frac{1}{2}| = \frac{1}{2} |\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} |\frac{1}{2} \times \frac{1}{2}$$

Added on is unique up to e phase

Znic 0

JE: I

Neumede

(c) Tetrahedron

$$\frac{1}{12} = \frac{18}{12} = \frac{1}{12} = \frac{1}{12$$

(11/10/00/12 t's + (01/19/10/20) = (7)

Normalized Vectors

124)= 13 13 (1) + 2 (1) 3 (1)