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1.6. Theorem.

Spinor complex vectors (spinors) of $V(2, \mathbb{C})$ already mentioned at the beginning of the chapter. In particular, we define two conjugate column vectors, or ket spinors: $|\xi\rangle = \begin{pmatrix} 1 \\ \xi \end{pmatrix}$, $|\xi^-\rangle = -\xi \begin{pmatrix} \xi \\ 1 \end{pmatrix}$ (5.1.12) and write the unitary V matrix symbolically as $V = \frac{1}{\sqrt{2}}(|\xi\rangle\langle\xi^-| + |\xi^-\rangle\langle\xi|)$ (5.1.13) 58

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It is a finite polynomial algebra C_2 generated by the set of elements $\{1, e_1, e_2\}$ subject to $e_1e_2 = -e_2e_1$, $e_1^2 = -1$, $e_2^2 = -1$, with $\exp[2i/n]$ (43) where n is an integer. This algebra has a long history being first explored by Sylvester in 1884 as an example of a generalisation of the quaternions.

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MA3J1 Tensors, Spinors and Rotations

In mathematics and physics, in particular in the theory of the orthogonal groups, spinors are elements of a complex vector space introduced to expand the notion of spatial vector. They are needed because the full structure of the group of rotations in a given number of dimensions requires some extra number of dimensions to exhibit it.

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