In Exercise #9 of Chapter 7.1.4 for the irreducible representations of $\operatorname{\mathbf{Spin}}(2n + 1, \mathbb{C})$, we must assume that $n \geq 3$. Note that when n = 2, then $\operatorname{\mathbf{Spin}}(5, \mathbb{C}) \cong \operatorname{\mathbf{Sp}}(4, \mathbb{C})$. With this isomorphism, the spin representation with highest weight ϖ_2 becomes the defining 4-dimensional representation of $\operatorname{\mathbf{Sp}}(4, \mathbb{C})$), whereas the representation with highest weight ϖ_1 is the defining 5-dimensional representation of $\operatorname{\mathbf{Spin}}(5, \mathbb{C})$.

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