

Early Autumn

$$1 = C$$

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2.

2

1

7

5

6

7

7⁴⁷

The four diagrams show the decomposition of the tensor product of two irreducible representations of $SU(3)$ into a direct sum of irreducible representations. The components are labeled with their corresponding Young diagrams and dimensions.

- Diagram 1:** The tensor product of the 2^{-7} and 5^{13} representations decomposes into the 1 and 6 representations.
- Diagram 2:** The tensor product of the 3^{-7} and 3^{07} representations decomposes into the 7 , 2 , 1 , and 7 representations.
- Diagram 3:** The tensor product of the 2^{-7} and 5^{13} representations decomposes into the 6 , 5 , 4 , 3 , 2 , 3 , and 5 representations.
- Diagram 4:** The tensor product of the 1^{47} and 1^{47} representations decomposes into the 2 , 5 , 6 , and 7 representations.

1-7 4¹³ 7 1 #1 2 4 6 1 b7

#1 2 4 6 1 b7

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D.S. al Coda

