



III

III

Ч

“ ”

III

III

III

Ч

Ч

Ч

III

Э

Ю Э

Ю

III

III

Ч

III



Figure 1 shows a 3x3 grid of diagrams illustrating the decomposition of the tensor product of two representations of the Lie algebra $\mathfrak{so}(3)$. The rows and columns are labeled with the representations 3 , 6 , and 3 . The cells contain the decomposition of the tensor product of the row and column representations into irreducible representations of $\mathfrak{so}(3)$. The decompositions are:

- Row 1, Column 1: $3 \otimes 3 = 1 + 5$
- Row 1, Column 2: $3 \otimes 6 = 3 + 7$
- Row 1, Column 3: $3 \otimes 3 = 1 + 5$
- Row 2, Column 1: $6 \otimes 3 = 3 + 7$
- Row 2, Column 2: $6 \otimes 6 = 1 + 5 + 7 + 9$
- Row 2, Column 3: $6 \otimes 3 = 3 + 7$
- Row 3, Column 1: $3 \otimes 3 = 1 + 5$
- Row 3, Column 2: $3 \otimes 6 = 3 + 7$
- Row 3, Column 3: $3 \otimes 3 = 1 + 5$



Tande Co. Ltd

--	--	--	--

III

Э

ЮӨ

ЮИ

III

Э

ЮӨ

Ю

III

III

Ч

III