

The diagram illustrates the decomposition of tensor products of representations of the Lie algebra $\mathfrak{so}(2n)$. The representations are labeled as $(10)(2e)$ and $(10)(2e)$. The diagram is organized into two main sections, each with a central node and several branches.

Top Section:

- Central node: $(10)(2e)$
- Branches: $(10)(2e)$, $(10)(2e)$, $(10)(2e)$

Bottom Section:

- Central node: $(10)(2e)$
- Branches: $(10)(2e)$, $(10)(2e)$, $(10)(2e)$

The diagram shows the decomposition of the tensor product of two fundamental representations of $\mathfrak{so}(2n)$ into a direct sum of representations. The decomposition is given by the following equation:

$$(10)(2e) \otimes (10)(2e) = (10)(2e) \oplus (10)(2e) \oplus (10)(2e)$$