

$$\langle \mathbf{G} \otimes \mathbf{G}^* \rangle =
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 + \\
 \begin{array}{c} \bullet \quad \bullet \\ | \quad | \\ \bullet \quad \bullet \\ \text{---} \end{array} +
 \begin{array}{c} \text{---} \bullet \\ | \\ \bullet \quad \bullet \quad \bullet \\ \text{---} \end{array} + \dots
 \end{array}$$

Diagrammatic expansion of the tensor product $\langle \mathbf{G} \otimes \mathbf{G}^* \rangle$. The expansion is a sum of diagrams representing different topologies of interactions between two horizontal lines (representing \mathbf{G} and \mathbf{G}^*).

- Row 1:**
 - Diagram 1: Two parallel horizontal lines.
 - Diagram 2: Two parallel horizontal lines with a vertical line connecting them at a central point.
 - Diagram 3: Two parallel horizontal lines with a curved line (arc) connecting them at two points.
- Row 2:**
 - Diagram 4: Two parallel horizontal lines with a curved line (arc) connecting them at two points (inverted relative to Diagram 3).
 - Diagram 5: Two parallel horizontal lines with a curved line (arc) connecting them at two points.
 - Diagram 6: Two parallel horizontal lines with a crossing (X-shape) connecting them at two points.
- Row 3:**
 - Diagram 7: Two parallel horizontal lines with two vertical lines connecting them at two points.
 - Diagram 8: Two parallel horizontal lines with a vertical line connecting them at a central point, and a curved line (arc) connecting them at two points.
- Row 4:**
 - Diagram 9: Three dots indicating the series continues.