

$$\mathcal{A}_4 = \underbrace{1 \text{ --- } \frac{N_s}{s} \text{ --- } 4}_{\text{Diagram 1}} + \underbrace{1 \text{ --- } \frac{N_u}{u} \text{ --- } 4}_{\text{Diagram 2}} + \underbrace{1 \text{ --- } \frac{N_t}{t} \text{ --- } 4}_{\text{Diagram 3}}$$

The equation defines \mathcal{A}_4 as the sum of three diagrams, each representing a different type of interaction between a horizontal line (labeled 1 and 4) and two vertical lines (labeled 2 and 3).

- Diagram 1:** A horizontal line with endpoints 1 and 4, and a label $\frac{N_s}{s}$ below it. Two vertical lines, labeled 2 and 3 at their top ends, connect the horizontal line to the top.
- Diagram 2:** A horizontal line with endpoints 1 and 4, and a label $\frac{N_u}{u}$ below it. A vertical line connects the horizontal line to a central vertex. From this vertex, two diagonal lines branch out to the top, labeled 2 and 3.
- Diagram 3:** A horizontal line with endpoints 1 and 4, and a label $\frac{N_t}{t}$ below it. Two vertical lines, labeled 3 and 2 at their top ends, connect the horizontal line to the top.