



A Feynman diagram representing a parton shower vertex. A horizontal line, representing a parton, is labeled "Parton i " on the left and "Parton f " on the right. At a central vertex, a shaded cone (representing a gluon jet) and a hatched circle (representing a quark) branch off from the line. The entire diagram is enclosed in large square brackets. A superscript "2" is located at the top right of the closing bracket, and the expression $\sim F_{f \leftarrow i}$ is placed to the right of the brackets.

$$\left[\begin{array}{c} \text{Parton } i \\ \text{Parton } f \end{array} \right]^2 \sim F_{f \leftarrow i}$$