

1. 正标量玻色子入射外线: $\phi \dashrightarrow^p \bullet = 1.$

2. 反标量玻色子入射外线: $\bar{\phi} \dashleftarrow^p \bullet = 1.$

3. 正标量玻色子出射外线: $\bullet \dashrightarrow^p \phi = 1.$

4. 反标量玻色子出射外线: $\bullet \dashleftarrow^p \bar{\phi} = 1.$

5. 复标量玻色子传播子: $\bullet \dashrightarrow^p \bullet = \frac{i}{p^2 - m_\phi^2 + i\epsilon}.$

6. 有质量实矢量玻色子入射外线: $A, \lambda; \mu \rightsquigarrow^p \bullet = \varepsilon^\mu(\mathbf{p}, \lambda).$

7. 有质量实矢量玻色子出射外线: $\bullet \rightsquigarrow^p A, \lambda; \mu = \varepsilon^{\mu*}(\mathbf{p}, \lambda).$

8. 有质量实矢量玻色子传播子: $\nu \bullet \rightsquigarrow^p \bullet \mu = \frac{-i(g^{\mu\nu} - p^\mu p^\nu / m_A^2)}{p^2 - m_A^2 + i\epsilon}.$

9. 无质量实矢量玻色子入射外线: $A, \lambda; \mu \rightsquigarrow^p \bullet = \varepsilon^\mu(\mathbf{p}, \lambda).$

10. 无质量实矢量玻色子出射外线: $\bullet \rightsquigarrow^p A, \lambda; \mu = \varepsilon^{\mu*}(\mathbf{p}, \lambda).$

11. 无质量实矢量玻色子传播子: $\nu \bullet \rightsquigarrow^p \bullet \mu = \frac{-ig^{\mu\nu}}{p^2 + i\epsilon} \text{ (Feynman 规范)}.$