

## SMQCD

[FFV] 2 Quarks – Gauge Boson . . . . .	2	[VVV] 3 Gauge Bosons . . . . .	2
[UUV] 2 Ghosts – Gauge Boson . . . . .	2	[VVVV] 4 Gauge Bosons . . . . .	2

**[FFV] 2 Quarks – Gauge Boson**

$$C_5(\bar{u}_{g1}, u_{g2}, g) = -ig_s \delta_{g1,g2} T_{c1,c2}^{g3} \begin{bmatrix} 1 \\ \hline 1 \end{bmatrix}$$

$$C_6(\bar{d}_{g1}, d_{g2}, g) = -ig_s \delta_{g1,g2} T_{c1,c2}^{g3} \begin{bmatrix} 1 \\ \hline 1 \end{bmatrix}$$

**[UUUV] 2 Ghosts – Gauge Boson**

$$C_4(\bar{u}_g, u_g, g) = g_s f^{g1,g2,g3} \begin{bmatrix} 1 \\ \hline 0 \end{bmatrix}$$

**[VVV] 3 Gauge Bosons**

$$C_3(g, g, g) = \begin{bmatrix} g_s f^{g1,g2,g3} \end{bmatrix}$$

**[VVVV] 4 Gauge Bosons**

$$C_2(g, g, g, g) = -ig_s^2 \begin{bmatrix} f^{g1,g3,x} f^{x,g2,g4} - f^{g1,g4,x} f^{x,g3,g2} \\ \hline f^{g1,g2,x} f^{x,g3,g4} + f^{g1,g4,x} f^{x,g3,g2} \\ \hline - \left( f^{g1,g2,x} f^{x,g3,g4} \right) - f^{g1,g3,x} f^{x,g2,g4} \end{bmatrix}$$