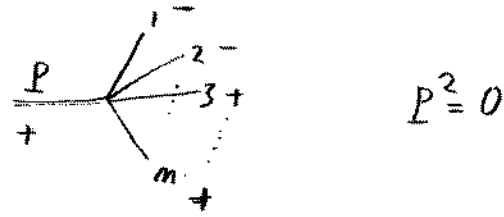


To conclude the exceedingly modest discussion of MHV amps, here is an outline of CSW (Cachazo, Svrček, Willetten hep-th/0406173, 0409245) rules for going beyond MHV!

(1) Make MHV amp off-shell



$$= \frac{\langle 12 \rangle^4}{\langle 12 \rangle \langle 23 \rangle \dots \langle (m-1)m \rangle \langle mP \rangle \langle P1 \rangle}$$

$$\lambda_1^a \lambda_{2a} \lambda_2^a \lambda_{3a}$$

$$\lambda_m^a \lambda_{Pa} \lambda_P^a \lambda_{1a}$$

$$P^2 = E_2^2 - (p_2^3)^2 - (p_2^x)^2 - (p_2^y)^2 = 0$$

now $P^2 \neq 0$, what is this?

$$-P = p_1 + p_2 + \dots + p_m$$

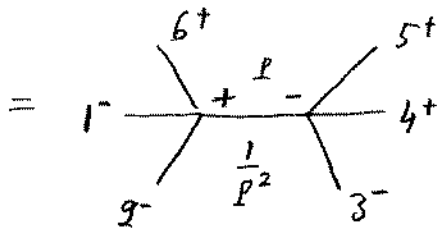
$$-P_{aa} = (p_1 + \dots + p_m)_{aa}$$

define $\lambda_{Pa} = P_{aa} \tilde{\eta}^a$

some reference spinor

(2) Form non-MHV by joining:

$A(1^- 2^- 3^- 4^+ 5^+ 6^+)$



$$= \frac{\langle 12 \rangle^{4-1}}{\langle 2P \rangle \langle P6 \rangle \langle 61 \rangle} \frac{1}{P^2} \frac{\langle P3 \rangle^{4-1}}{\langle 34 \rangle \langle 45 \rangle \langle 5P \rangle}$$

should be the appropriate ---+++ amp !!

*1 see also Britto - Cachazo - Feng, hep-th/0412308