

$$n_{incorig}$$
 $= i M_{\partial}(P_{i})$

$$\frac{1}{2} M_{0}(P; -2)$$

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$$P = -Q \frac{(P \cdot E)}{(p \cdot E)} \cdot \xi M(p \cdot 1E)$$

Total Amplitude

$$M = \underbrace{\sum_{i \in \mathcal{P}_i} Q_i \frac{(p \cdot \epsilon)}{(p \cdot \epsilon)}}_{\text{out}_{g, \gamma}} : M_0(p - \epsilon) + \underbrace{\sum_{i \in \mathcal{P}_i} Q_i \frac{(p \cdot \epsilon)}{(p \cdot \epsilon)}}_{\text{out}_{g, \gamma}} : M(p_i + \epsilon)$$

Soft limit
$$M_{\delta}(P_{+}^{\epsilon}) \rightarrow M_{\delta}(P) = M_{\delta}\left(\frac{Q(P_{\epsilon})}{Q(P_{\epsilon})} + \frac{Q(P_{\epsilon})}{Q(P_{\epsilon})}\right)$$

now as before En Enter monus tot M most varish when Engly

OR under LT

Now some logiet for Spin-2 (Grandescribes intentions)

Sane as above except 2-composit polarization rector

Env mar >> Eir mar + M (K. Ar pr - C Ko Ar pr)

$$+ MA_{\nu} \left(\sum_{i=1}^{N} k_{i} p^{\nu} - \sum_{i=1}^{N} k_{i} p^{\nu} \right) \Rightarrow k_{i} p^{\nu}$$

$$(on se-p)$$

We know that P. V is consoned by Edmin.

Only way on has nontrivial solutions is if k := k for all i

All particles interest of gracity with the some strongth Grandford interestion is universal!

"Principle of Equipment"

Can Keep going ...

For mass less spin 3 we would need.

Spipi = Spipin

eg nv=0 $\{B, E^2 = \{B, E^2\}\}$

way too par constraint only way if B = C

No interacts of theories of massless particles
of Sping greater than 2