Lichtenberg (conti 3)

$6 \times 3 = 10 + 8$
   d   q

SU(6): broken

$q \times \xi \Rightarrow 6 \times 6 = 21 + 15$
                         sym. anti.

$B = d \times q \Rightarrow 21 \times 6 = 56 + 70$

$(B_3 = q \times q \times q \Rightarrow 6 \times 6 \times 6 = 56 + 70 + 70 + 20$

$(SU(6), D_3^P)$

——————— $(56, 2^+)$
      ——— $(70, 1^-)$
——————— $(56, 0^+)$

$^2 \cdot 8 + {}^4 10$

Mitra :

Han-Nambu: Integral charge, 3-triplet
                    (charm number)

	Q	Q	Q	average Q
$q_1 (\mathcal{P})$	1	1	0	$\frac{2}{3}$
$q_2 (n)$	0	0	-1	$-\frac{1}{3}$
$q_3 (\lambda)$	0	0	-1	$-\frac{1}{3}$

$\Rightarrow \frac{\mu_P}{\mu_n} = \frac{-3}{2}$

too many levels

Schwinger: dyon model
      electric and magnetic charges

$\frac{e_m q}{4\pi} = 2n$ (Dirac: $\frac{e_m q}{4\pi} = \frac{n}{2}$) $\begin{cases} d_1 \\ d_2 \\ q_2 \end{cases}$

From where extra degrees of freedom

Licht

d_1

d_2

d_3

$$\left(\frac{2}{3} \quad \frac{2}{3} \quad \frac{2}{3} \quad -\frac{1}{3} \quad -\frac{1}{3} \right)$$

q-particles

duality