```
Rupo = yre (2p Tro - 20 Trp)
                          = \frac{1}{2} (hro, vp + hvp, no - hvo, pp - hpp, vo)
    Prv = 2° 2/ holp - 122°2 hrv - 22 20 h when h = h / p
   Gru - 212 (phulp - 1 2 2/2 phru - 128,2 h - 12 yru (2/2 thro - 2/2 h)
       hru = hru - = ypuh => hru = hru - = hyru h = hr = -h
      Gpv = 8 TTpv
      - 1200p hpv +2024 hv)p - 24mode2 hpo = 8 to Tru
                                                                                                                                              — linewind Einstein agreation
    (g,T) equivalent to (p*(g), p*(T))
     1- param family of differs by
         (9+*(9)) pr close to diag(-1,1,1,1) for small t.
            (Q-t)* (T) = T + t &x T + O(t2) = T + las LgT + O(t2)
     T= en tenson: (LgT)pr 2nd order: neglect

=> Tpr gange involvent to last order Sin for Rprpo
  (q-e)_*(q) = q + l_q q + ... = q + h + l_q q + ...

(l_q h) = q + l_q q + ... = q + h + l_q q + ...

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(l_q h) = q + l_q q + ...
   of electromagnetism Fro = 2 2 In Avj Ar -> Ar + 2ml
can about A to impose gange condition 2h Ar = 0
Ex: Slow 2 hrv -> 2 hrv + 2 2 2 gr moder (*)
```

Channel of st. 200,
$$Q_{r}^{\mu} = -2^{\nu} \bar{h}_{p\nu} = 2$$
 can i-for gard condition $2^{\nu} \bar{h}_{p\nu} = 0$

Linewheld Englar $q: -\frac{1}{2}2^{\nu}$, $\bar{h}_{p\nu} = 9\pi T_{p\nu}$

Newtonian Limit

 $X^{\mu} = (\pm, x^{\mu})$
 3 -relating of particle $u^{\mu} = \frac{dx^{\mu}}{dx^{\mu}}$ around $u^{\mu} = 0(\xi)$.

 $x^{\mu} = (\pm, x^{\mu})$
 $x^{$