el. 12a _ F3 _ Postulatele TRR Ciustein, Consecute. Transf. Lorentz.

1. Postuladele Giufeiu pt. TRR-teoria relativitatii sestrause.

2 - Cooseciatele postalatelos TRR, Einstein.

3 - Transformante Lovente.

1). Postulatele Grustien pt TRR

Exp. MM-Michelson & Mosley-dovedeste co, vitezo lamini (c) un depinde de detectia si vici de sensal ei de miseare, contro v resultatului terretic bosat pe regula closico, Balifei de campamere Ros. Italia.

Resultatele exp. M-M se explica intrum mod simple doco se acception

Principiel constanter vitezei l'unimi (c=const)

PI). - Viteto lumini-este accessi in toate set sitt. de referinto si me Det toate ditectibe si este independento de un secre observatoralmi san a sursei de lumino (1905-A. Grustein)

P2) - Toate legile fizici rămân aceleasi in orice SRI, Starea de Def repans san MRU nu pot fi puse in evidento prin exp. e fectuale la bordul SRI,

Obs. Pe bazo acestor 2-principi A. Cinstein degnots in (1905) TRR

- Ulterior du (1911) formuleo to si TRB - Teoria Relativ, Generalizate Enclutand. si SRH - sist du ref. neinertiale, rumita ulterior si Teoria relativista a gravitatiei.

2)_ Aceste dont postulate au 3 conseconte;

a) - Relativitatea simultoneitati evenimentelos foto de Siri distrite. (S-fix si S-mobil)

5) - Relativetatea timpalen Dilatore a durateloz in SRI-fixe

faté de srj-mobile D

C)-Relativitatea lung miloz/Contractia Impiniloz pt. SRI-mobile ou roport ou cele ski-fine.

L= UVI-NYC2

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3). Transformante Lorentz de coordonate.
                - Februcit trous f. Galilei de acrupunere a vitezeloz un servi sunt
                             valabile la viteze mari (vivie) Lovente a incercat gasitea
                          uni alt set de ecuati pentre transformante de coordonable
                           care so respecte postulatele (Pi+Pz) ale TRR si la viteze mari
                - (1904) Lorentz deduce ec. compunând conditia de omogenitote-
ec. Maxwell, care stan la borto-teoriei electrodinamicii. Constituto
                  - Considerou douc. SRI / S-fix -P(X, J, t, t)
                                  cu axèle parolele. & S'-mobile anvitedato foto de S-fix
                          atunci: 1 y = y
                                                                                                                                                   ーカ (x)なりもり)
                   Die troust. Galilei obtrulie. K-fool de proportione. PJ + (E)
                   y = k(x - v, t)
                  2) (t = \frac{x}{c}, t' = \frac{x!}{c}) - Couf.

2) (t = \frac{x}{c}, t' = \frac{x!}{c}) - Shucronizorii elestariby 5-fix \frac{x}{c} - Lichie. \frac{x}{c} diu \frac{x}{c} \frac{x}{c} \frac{x}{c} \frac{x}{c} \frac{x}{c} \frac{x}{c}
                        Substituired thupin in sist other douce ee obtineer.
                                \int_{X} x = K(x - 4, \frac{x}{x}) - \int_{X} x = K(1 + \frac{x}{x}) \times \frac{x}{x}
                     - cumbin outre ele cute 2, ec. obtivem, xxx = K! (1-1/22). xxx
                            K = VI-v2c2 (3) factoral K-relativist. extragind rodicalul
                        Iuloquind pe Kdul3) in ec. (1) obtinem forma los finals:

    \left(3'-3'\right) \times = \frac{x'-v,t}{v_1-v_2/2}, \quad 3'-3', \quad 2'-2' + (5) \\
    \left(3'-3'\right) \times = \frac{x'+v+t'}{v_1-v_2/2}, \quad 3'-3', \quad 2-2' + (5) \\
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    \left(3
                         Substituing acum si tembri, gras simbary la en (c) a sc (?) orem.
                            \frac{(x') - (x') - x' \cdot t}{V_1 - v_2 \cdot c_2} \rightarrow t' = \frac{t - \frac{v_2 \cdot x}{V_1 - v_2 \cdot c_2}}{V_1 - v_2 \cdot c_2}
\frac{(x') - (x') + \frac{v_2 \cdot t}{V_1 - v_2 \cdot c_2}}{V_1 - v_2 \cdot c_2} \rightarrow t = \frac{t' + \frac{v_2 \cdot x'}{V_1 - v_2 \cdot c_2}}{V_1 - v_2 \cdot c_2}
               Obs Avendona seturi de ce pt troust. de coordonate (Isi II):
                                      (I) pt trecerea de la sri-fix la sri-mobil ($1-5)

(II) pt. trecerea de la sri-mobile la sri-fix ($4-5')
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