

$$x' = \gamma(x - vt), \quad x = \gamma(x' + vt')$$

$$t' = \gamma \left(t - \frac{xv}{c^2} \right), \quad t = \gamma \left(t' + \frac{x'v}{c^2} \right), \quad v' = \frac{v_2 - v_1}{1 - \frac{v_1 v_2}{c^2}}$$

$$\gamma = \frac{1}{\sqrt{1 - \frac{v^2}{c^2}}}$$

$$p'_x = \gamma \left(p_x - \frac{v}{c^2} W \right), \quad W = \gamma (W - v p_x)$$

$$u(r, t) = C_1 f \left(\frac{r - vt}{r} \right) + C_2 g \left(\frac{r + vt}{r} \right)$$

$$u(r, t) = \frac{\hat{u}}{\sqrt{r}} \cos(k(r \pm vt)) \quad \vec{E} = \frac{Q}{4\pi\epsilon_0 r^2} \frac{(1 - \beta^2)^{3/2}}{(1 - \beta^2 \sin^2 \theta)^{3/2}} \hat{z}$$

$$\vec{E}' = \gamma(\vec{E} + \vec{v} \times \vec{B}), \quad \vec{B}' = \gamma \left(\vec{B} - \frac{\vec{v} \times \vec{E}}{c^2} \right)$$

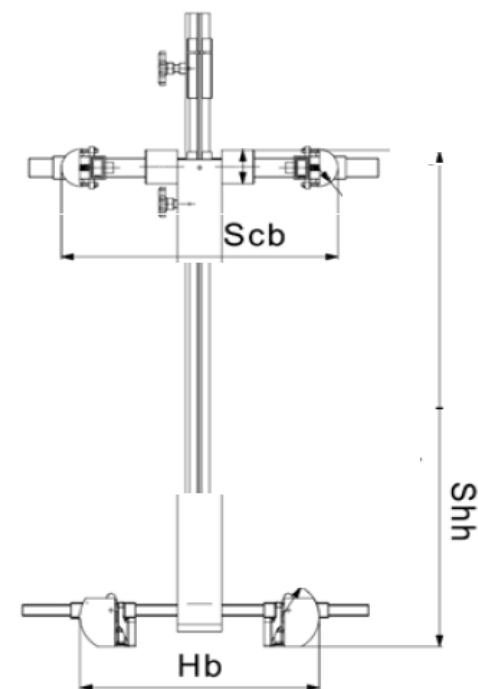


HOW TO DEFINE STATURE FOR NON INTEGRAL ECRS

Child Restraint Systems

Defining stature for NON INTEGRAL ECRS

- The TSG noticed some issues for defining stature range of the non integral ECRS.
 - Shoulder height will be a challenge to define due to interference with the headrest.
 - Shoulder breadth in respect to side wings of the seat.



$$x' = \gamma(x - vt), \quad x = \gamma(x' + vt')$$

$$t' = \gamma \left(t - \frac{xv}{c^2} \right), \quad t = \gamma \left(t' + \frac{x'v}{c^2} \right), \quad v' = \frac{v_2 - v_1}{1 - \frac{v_1 v_2}{c^2}}$$

$$\gamma = \frac{1}{\sqrt{1 - \frac{v^2}{c^2}}}$$

$$p'_x = \gamma \left(p_x - \frac{E v}{c^2} \right), \quad W' = \gamma (W - v p_x)$$

$$x = x \frac{(\gamma - 1)(\vec{x} \cdot \vec{v})}{v^2} - \gamma vt, \quad t' = \gamma \left(t - \frac{\vec{x} \cdot \vec{v}}{c^2} \right)$$

$$u(r, t) = C_1 \frac{f(r - vt)}{r} + C_2 \frac{g(r + vt)}{r}$$

$$u(r, t) = \frac{\hat{u}}{\sqrt{r}} \cos(k(r \pm vt)) \quad \vec{E} = \frac{Q}{4\pi\epsilon_0 r^2} \frac{(1 - \beta^2)^{3/2}}{(1 - \beta^2 \sin^2(\theta))^{3/2}} \hat{z}$$

$$\vec{E}' = \gamma(\vec{E} + \vec{v} \times \vec{B}), \quad \vec{B}' = \gamma \left(\vec{B} - \frac{\vec{v} \times \vec{E}}{c^2} \right)$$



THANK YOU FOR YOUR ATTENTION!

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