

$\sqrt{573}$   
 $\frac{dN}{d\Omega'} \quad (V \rightarrow c)$   
 Вспомогательная  $d\Omega' = \frac{1-\beta^2}{(1-\beta \cos \theta)^2} d\Omega$   
 $\Rightarrow d\Omega = \frac{1 - (\frac{v}{c})^2}{(1 + \frac{v}{c} \cos \theta')^2} d\Omega'$   
 $\frac{dN}{d\Omega'} = \frac{dN}{d\Omega} \frac{d\Omega}{d\Omega'} = \frac{N_0}{4\pi} \frac{1 - \frac{v^2}{c^2}}{(1 + \frac{v}{c} \cos \theta')^2} \Rightarrow$   
 $V \rightarrow c \quad \frac{dN}{d\Omega'} \rightarrow 0, \theta' \neq \pi$   
 $\frac{dN}{d\Omega'} \rightarrow \infty, \theta' = \pi$

$$x = \gamma(x' + vt')$$

$$t = \gamma(t' + \frac{v}{c^2}x')$$

$$\frac{x}{ct} = \frac{\gamma(x' + vt')}{c\gamma(t' + \frac{v}{c^2}x')} \rightarrow \cos \theta = \frac{\cos \theta' + \beta}{1 + \beta \cos \theta'}$$

$$d\Omega = \sin \theta d\theta d\alpha = -d(\cos \theta) d\alpha =$$

$$= -d\left(\frac{\cos \theta' + \beta}{1 + \beta \cos \theta'}\right) d\alpha' =$$

$$= \left[ \frac{\sin \theta' d\theta'}{1 + \beta \cos \theta'} - \frac{(\cos \theta' + \beta) \sin \theta' \beta d\theta'}{(1 + \beta \cos \theta')^2} \right] d\alpha' =$$