

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

$$\frac{1}{F} = \frac{1}{\gamma} + \frac{\gamma v^2}{c^2} \cos \theta$$

$$\boxed{\cos \theta = \frac{1}{\gamma} - \frac{v^2}{c^2}}$$

$$a' = \frac{1}{\gamma} \frac{a}{1 - \frac{v^2}{c^2} \cos \theta} \rightarrow a = \gamma a' \left(1 - \frac{v^2}{c^2} \cos \theta \right)$$

$$b' = \gamma \left(b - \frac{v}{c} a \right) \cos \theta = \gamma a \quad b' c = v$$

$$\int \frac{1}{r} \lambda \omega \times \lambda \frac{d\theta}{dt} = \frac{1}{r} \lambda \omega \times \lambda \frac{d\theta}{dt} = \frac{1}{r} \lambda \omega \times \lambda \frac{d\theta}{dt} = \frac{1}{r} \lambda \omega \times \lambda \frac{d\theta}{dt}$$

$$b' + c' = a' + \gamma b' \cos \theta = \gamma b' \cos \theta + \gamma b' \cos \theta = \gamma b' \cos \theta (1 + 1) = \gamma b' \cos \theta (2) = \gamma b' \cos \theta$$

$$a' + b' - c' = a' + a' b' - c a'$$

$$b(b' - a') = c(c' - a')$$

$$\frac{b}{c} = \frac{c' - a'}{b' - a'} \Rightarrow \frac{b - c}{c} = \frac{c' - a'}{b' - a'}$$

$$\frac{-1}{c} = \frac{c + b}{b' - a'}$$

$$a' - b' = c' + cb$$

$$S = \frac{1}{r} b c \sin \theta$$

$$\frac{1}{r} (1 - \cos \theta) \sin \theta (1 + \cos \theta) = \gamma$$

$$\gamma + \gamma \cos \theta \cdot \gamma \sin \theta = 1 \rightarrow -\gamma \cos \theta + \gamma \cos \theta - \gamma \cos \theta = 1 \rightarrow \gamma \cos \theta = 1$$

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

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