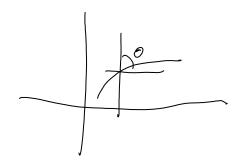
Geodesics in Hyperbolic Geometry

November-11-08

Snell's law!

01

$$\frac{Sin\theta_1}{V_1} = \frac{Sin\theta_2}{V_2}$$



$$\frac{\sin \theta}{\sqrt{s}} = C$$

$$\frac{\sin \theta}{\sqrt{s}} = C$$

$$V = Y$$

$$y' = \frac{\cos \theta}{\sin \theta} = \frac{\sqrt{1 - \sin \theta}}{\sin \theta}$$

$$(\sin\phi y' = \sqrt{1 - \sin^2\phi})$$

$$sin^{2}\theta(y')^{2} = 1 - sin^{2}\theta$$

$$=$$
 $\sqrt{\frac{y}{1+y'_1^2}} = y\sqrt{1+(y'_1)^2}$

$$\frac{\sqrt{\sin \theta}}{\sin \theta} = 0$$

$$\frac{\dot{y}}{\dot{x}} = \frac{\cos \theta}{\sin \theta} = \frac{\cos \theta}{cy}$$

sint, oust

