

Hello, world! L^AT_EX can typeset equations like

$$\int_0^{2\pi} \sin^2 \theta \int_-^T T d\theta = \frac{1}{2} \tag{1}$$

$$\left[\mathbf{X} + \mathbf{a} \geq \hat{a} \sum_i^N \lim_{x \rightarrow k} \delta C \right] \tag{2}$$

very cool!