## Lorentz Factor Profile ( $t\!=\!1.00s$ , $\Gamma_A=\!50.00$ , $k\!=\!0.0$ , $\sigma\!=\!02.0^\circ$ ) $\Theta_v = 00.0^{\circ} \mid \kappa = 1.0$ $\Theta_v = 02.0^{\circ} | \kappa = 1.0$ $\Theta_v = 06.0^{\circ} | \kappa = 1.0$ 0.0 10<sup>5</sup> 0.2 0.4 0.6 8.0 10<sup>4</sup> 1.0 $\Theta_v = 00.0^{\circ} | \kappa = 3.0$ $\Theta_v=\!02.0\,^\circ\,|\ \kappa=\!3.0$ $\Theta_v=\!06.0\,^\circ\,|\ \kappa\!=\!3.0$ 0.0 0.2 10<sup>3</sup> $y\!=\!R/R_l$ 0.4 0.6 0.8 10<sup>2</sup> 1.0 $\Theta_v = 00.0^{\circ}$ | $\kappa = 10.0$ $\Theta_v = 02.0^{\circ} | \kappa = 10.0$ $\Theta_v = 06.0^{\circ} | \kappa = 10.0$ 0.0 0.2 10<sup>1</sup> 0.4 0.6 8.0 10<sup>0</sup> 1.0 0.0 0.1 0.2 0.2 0.1 0.0 0.1 0.2 0.2 0.1 0.0 0.1 0.2

 $R_{\perp}/R_{l}$