

Relative error of $|\ell|$

$1e-13$

$v_y = \pi$

$v_y = 2\pi$

$v_y = 3\pi/2$

$v_y = 5\pi/2$

1.2

1.0

0.8

0.6

0.4

0.2

0.0

0

20

40

60

80

100

Time [yr]

