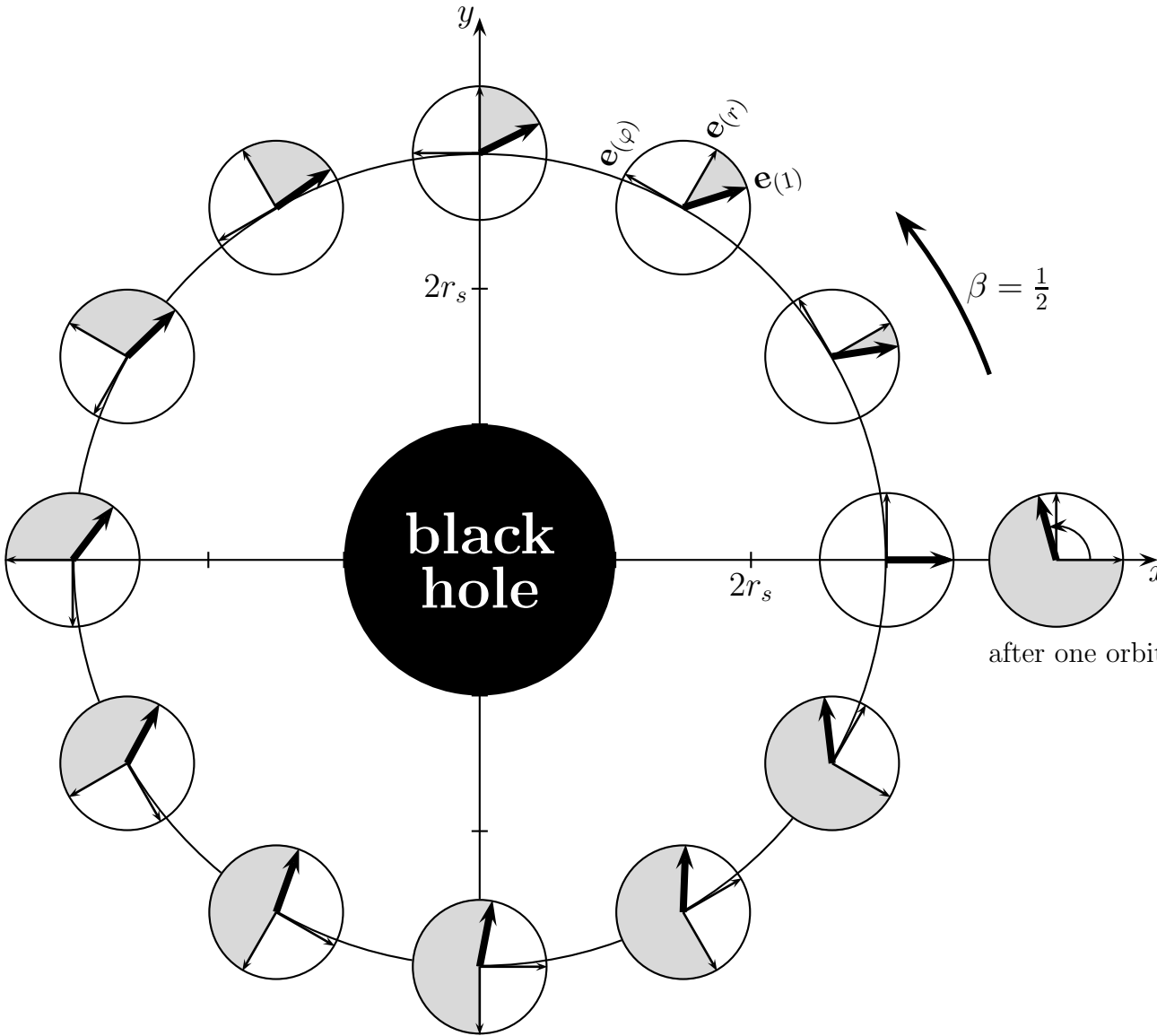
y
x
$2r_s$
$2r_s$
black hole
$\mathbf{e}_{(\varphi)}$
$\mathbf{e}_{(r)}$
$\mathbf{e}_{(1)}$
$\beta = \frac{1}{2}$
after one orbit