Disables the nonlinear fringe of solenoid if nonzero. The default is 0. The transformation for the nonlinear fringe is e

$$\exp(:H:), \qquad H = -B_z/(8p^2B\rho)p_\phi p_r,$$

where

$$p_\phi = xp_y - yp_x\,,$$
$$p_r = xp_x + yp_y\,,$$

whose canonical partners are

$$\phi = \texttt{ArcTan}[y/x]\,,$$
$$r = \texttt{Log}[x^2 + y^2]/2\,,$$

respectively.