axially symmetric photon in the y-z-axis:

$\boxed{x^\mu}$

$\boxed{g_{\mu\nu}}$

$\boxed{\sqrt{} = \sqrt{-\det(g_{\mu\nu})}}$

$\sqrt{} = i.$

$\boxed{g^{\mu\nu}}$

$\boxed{\Gamma^\sigma_{\mu\nu}}$
$\boxed{R_{\mu\nu}}$

$\boxed{R^\nu_\nu}$

$\boxed{R}$

$R = 0.$

$\boxed{G^\mu_\nu}$

$\boxed{G}$

$G = 0.$

$\boxed{G^\mu_{\nu\varepsilon\mu} = 0}$

$\boxed{g^{\mu\nu}\,\Gamma^\lambda_{\mu\nu} = 0?}$