Coordinates: (t, r, θ, ϕ) with axial symmetry about the z-axis; functions have compact support in r.

Alcubierre

Profile: $f(r,t) = interpolated_alcubierre(r)$ (NPZ data for alcubierre with 500 points)

$$ds^2 = -\,dt^2 + \big(1 - f(r,t)\big)\,dr^2 + r^2\,d\theta^2 + r^2 \sin^2\theta\,d\phi^2$$

Natário

Profile: $f(r,t) = interpolated_natario(r)$ (NPZ data for natario with 500 points)

$$ds^2 = -\,dt^2 + \big(1 - f(r,t)\big)\,dr^2 + r^2\,d\theta^2 + r^2 \sin^2\theta\,d\phi^2$$