

The $r \rightarrow \infty$ limit of the metric of the Einstein-Maxwell-dilaton (EMD) theory has the most general form with

$$\theta = \frac{d^2 \beta}{\alpha + (d-1)\beta}$$

$$z = 1 + \frac{\theta}{d} + \frac{8(d(d-\theta) + \theta)^2}{d^2(d-\theta)\alpha^2}.$$