

Connection Coefficients

Here, $a = \alpha$, $m = \mu$, $n = \nu$

$a = 0$

$$0$$

$$-r/\rho^{**2} - M/\Delta + r/\Delta$$

$$a^{**2} \sin(2*\theta)/(2*\rho^{**2})$$

$$0$$

$$-r/\rho^{**2} - M/\Delta + r/\Delta$$

$$0$$

$$0$$

$$0$$

$$a^{**2} \sin(2*\theta)/(2*\rho^{**2})$$

$$0$$

$$0$$

$$0$$

$$0$$

$$0$$

$$0$$

$$0$$

$a = 1$

$$-\Delta*(\Delta*r + \rho^{**2}*(M - r))/\rho^{**6}$$

$$0$$

$$0$$

$$0$$

$$0$$

$$r/\rho^{**2} + M/\Delta - r/\Delta$$

$$-a^{**2} \sin(2 \cdot \text{theta}) / (2 \cdot \text{rho}^{**2})$$

$$0$$

$$0$$

$$-a^{**2} \sin(2 \cdot \text{theta}) / (2 \cdot \text{rho}^{**2})$$

$$-\text{Delta} \cdot r / \text{rho}^{**2}$$

$$0$$

$$0$$

$$0$$

$$0$$

$$\text{Delta} \cdot r \cdot (a^{**2} + r^{**2}) \cdot (a^{**2} + r^{**2} - 2 \cdot \text{rho}^{**2}) \cdot \sin(\text{theta}^{**2}) / \text{rho}^{**6}$$

$$a = 2$$

$$\text{Delta} \cdot a^{**2} \sin(2 \cdot \text{theta}) / (2 \cdot \text{rho}^{**6})$$

$$0$$

$$0$$

$$0$$

$$0$$

$$a^{**2} \sin(2 \cdot \text{theta}) / (2 \cdot \text{Delta} \cdot \text{rho}^{**2})$$

$$r / \text{rho}^{**2}$$

$$0$$

$$0$$

$$r / \text{rho}^{**2}$$

$$-a^{**2} \sin(2 \cdot \text{theta}) / (2 \cdot \text{rho}^{**2})$$

$$0$$

$$0$$

$$0$$

$$0$$

$$(a^{**2} + r^{**2})^{**2}*(-a^{**2}*(\cos(\theta*(\theta - 2)) - \cos(\theta*(\theta + 2)))/4 - \rho^{**2}*\theta*\cos(\theta^{**2}))/\rho^{**6}$$

$$a = 3$$

$$0$$

$$0$$

$$0$$

$$0$$

$$0$$

$$0$$

$$0$$

$$r*(-a^{**2} - r^{**2} + 2*\rho^{**2})/(\rho^{**2}*(a^{**2} + r^{**2}))$$

$$0$$

$$0$$

$$0$$

$$a^{**2}*\sin(2*\theta)/(2*\rho^{**2}) + \theta/\tan(\theta^{**2})$$

$$0$$

$$r*(-a^{**2} - r^{**2} + 2*\rho^{**2})/(\rho^{**2}*(a^{**2} + r^{**2}))$$

$$a^{**2}*\sin(2*\theta)/(2*\rho^{**2}) + \theta/\tan(\theta^{**2})$$

$$0$$