$$R_{meas} = \begin{bmatrix} \frac{sa_{11}\left(a_y a_z m_x^2+a_y a_z m_y^2+a_z^2 m_y m_z-m_y m_z\right)^2+sa_{22}\left(a_x a_z m_x^2+a_x a_z m_y^2+a_z^2 m_x m_z-m_x m_z\right)^2+sa_{33}\left(a_x^2 m_x m_y-a_x a_y m_x^2+a_x a_y m_y^2+2a_x a_z m_y m_z-a_y^2 m_x m_y-2a_y a_z m_x m_z\right)^2+sm_{11}\left(a_x^2 a_z m_y+a_y^2 a_z m_y+a_y a_z^2 m_z-a_y m_z\right)^2+sm_{22}\left(a_x^2 a_z m_x+a_x a_z^2 m_z-a_x m_z+a_y^2 a_z m_x\right)^2+sm_{33}\left(a_x a_z^2 m_y-a_x m_y-a_y a_z^2 m_x+a_y m_x\right)^2}{\left(a_x^2 a_z^2 m_x^2+a_x^2 m_y^2+2a_x a_y a_z^2 m_x m_y-2a_x a_y m_x m_y+2a_x a_z^3 m_x m_z-2a_x a_z m_x m_z+a_y^2 a_z^2 m_y^2+a_y^2 m_x^2+2a_y a_z^3 m_y m_z-2a_y a_z m_y m_z+a_z^4 m_z^2-2a_z^2 m_z^2+m_z^2\right)^2} & \frac{sa_{33}\left(-a_x^2 m_x m_y+a_x a_y m_x^2-a_x a_y m_y^2-2a_x a_z m_y m_z+a_y^2 m_x m_y+2a_y a_z m_x m_z\right)}{\sqrt{1-a_z^2}\left(a_x^2 a_z^2 m_x^2+a_x^2 m_y^2+2a_x a_y a_z^2 m_x m_y-2a_x a_y m_x m_y+2a_x a_z^3 m_x m_z-2a_x a_z m_x m_z+a_y^2 a_z^2 m_y^2+a_y^2 m_x^2+2a_y a_z^3 m_y m_z-2a_y a_z m_y m_z+a_z^4 m_z^2-2a_z^2 m_z^2+m_z^2\right)} & \frac{a_x sa_{22}\left(a_x a_z m_x^2+a_x a_z m_y^2+a_z^2 m_x m_z-m_x m_z\right)+a_y sa_{11}\left(a_y a_z m_x^2+a_y a_z m_y^2+a_z^2 m_y m_z-m_y m_z\right)}{\left(a_x^2+a_y^2\right)\left(a_x^2 a_z^2 m_x^2+a_x^2 m_y^2+2a_x a_y a_z^2 m_x m_y-2a_x a_y m_x m_y+2a_x a_z^3 m_x m_z-2a_x a_z m_x m_z+a_y^2 a_z^2 m_y^2+a_y^2 m_x^2+2a_y a_z^3 m_y m_z-2a_y a_z m_y m_z+a_z^4 m_z^2-2a_z^2 m_z^2+m_z^2\right)} \\ \frac{sa_{33}\left(-a_x^2 m_x m_y+a_x a_y m_x^2-a_x a_y m_y^2-2a_x a_z m_y m_z+a_y^2 m_x m_y+2a_y a_z m_x m_z\right)}{\sqrt{1-a_z^2}\left(a_x^2 a_z^2 m_x^2+a_x^2 m_y^2+2a_x a_y a_z^2 m_x m_y-2a_x a_y m_x m_y+2a_x a_z^3 m_x m_z-2a_x a_z m_x m_z+a_y^2 a_z^2 m_y^2+a_y^2 m_x^2+2a_y a_z^3 m_y m_z-2a_y a_z m_y m_z+a_z^4 m_z^2-2a_z^2 m_z^2+m_z^2\right)} & -\frac{sa_{33}}{a_z^2-1} & 0 \\ \frac{a_x sa_{22}\left(a_x a_z m_x^2+a_x a_z m_y^2+a_z^2 m_x m_z-m_x m_z\right)+a_y sa_{11}\left(a_y a_z m_x^2+a_y a_z m_y^2+a_z^2 m_y m_z-m_y m_z\right)}{\left(a_x^2+a_y^2\right)\left(a_x^2 a_z^2 m_x^2+a_x^2 m_y^2+2a_x a_y a_z^2 m_x m_y-2a_x a_y m_x m_y+2a_x a_z^3 m_x m_z-2a_x a_z m_x m_z+a_y^2 a_z^2 m_y^2+a_y^2 m_x^2+2a_y a_z^3 m_y m_z-2a_y a_z m_y m_z+a_z^4 m_z^2-2a_z^2 m_z^2+m_z^2\right)} & 0 & \frac{a_x^2 sa_{22}+a_y^2 sa_{11}}{\left(a_x^2+a_y^2\right)^2} \end{bmatrix}$$