$$\frac{\partial^2 f}{\partial x^2}+\frac{\partial^2 f}{\partial y^2}+\frac{\partial^2 f}{\partial z^2}+\frac{\partial^2 f}{\partial t^2}$$

$$=\frac{\partial}{\partial x}\left(\frac{\partial f}{\partial r}\times\frac{\partial r}{\partial x}+\frac{\partial f}{\partial \theta}\times\frac{\partial \theta}{\partial x}+\frac{\partial f}{\partial \varphi}\times\frac{\partial \varphi}{\partial x}+\frac{\partial f}{\partial \psi}\times\frac{\partial \psi}{\partial x}\right)+\frac{\partial}{\partial y}\left(\frac{\partial f}{\partial r}\times\frac{\partial r}{\partial y}+\frac{\partial f}{\partial \theta}\times\frac{\partial \theta}{\partial y}+\frac{\partial f}{\partial \varphi}\times\frac{\partial \varphi}{\partial y}+\frac{\partial f}{\partial \psi}\times\frac{\partial \psi}{\partial y}\right)$$
$$+\frac{\partial}{\partial z}\left(\frac{\partial f}{\partial r}\times\frac{\partial r}{\partial z}+\frac{\partial f}{\partial \theta}\times\frac{\partial \theta}{\partial z}+\frac{\partial f}{\partial \varphi}\times\frac{\partial \varphi}{\partial z}+\frac{\partial f}{\partial \psi}\times\frac{\partial \psi}{\partial z}\right)+\frac{\partial}{\partial t}\left(\frac{\partial f}{\partial r}\times\frac{\partial r}{\partial t}+\frac{\partial f}{\partial \theta}\times\frac{\partial \theta}{\partial t}+\frac{\partial f}{\partial \varphi}\times\frac{\partial \varphi}{\partial t}+\frac{\partial f}{\partial \psi}\times\frac{\partial \psi}{\partial t}\right)$$

$$=\frac{\partial}{\partial x}\left(\frac{\partial f}{\partial r}\times\frac{x}{\sqrt{x^2+y^2+z^2+t^2}}+\frac{\partial f}{\partial \theta}\times\frac{-y}{x^2+y^2}+\frac{\partial f}{\partial \varphi}\times\frac{-xz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}}+\frac{\partial f}{\partial \psi}\times\frac{-xt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right)$$
$$+\frac{\partial}{\partial y}\left(\frac{\partial f}{\partial r}\times\frac{y}{\sqrt{x^2+y^2+z^2+t^2}}+\frac{\partial f}{\partial \theta}\times\frac{x}{x^2+y^2}+\frac{\partial f}{\partial \varphi}\times\frac{-yz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}}+\frac{\partial f}{\partial \psi}\times\frac{-yt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right)$$
$$+\frac{\partial}{\partial z}\left(\frac{\partial f}{\partial r}\times\frac{z}{\sqrt{x^2+y^2+z^2+t^2}}+\frac{\partial f}{\partial \varphi}\times\frac{\sqrt{x^2+y^2}}{x^2+y^2+z^2}+\frac{\partial f}{\partial \psi}\times\frac{-zt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right)$$
$$+\frac{\partial}{\partial t}\left(\frac{\partial f}{\partial r}\times\frac{t}{\sqrt{x^2+y^2+z^2+t^2}}+\frac{\partial f}{\partial \psi}\times\frac{\sqrt{x^2+y^2+z^2}}{x^2+y^2+z^2+t^2}\right)$$

$$=\left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial r}{\partial x}+\frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial \theta}{\partial x}+\frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial \varphi}{\partial x}+\frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial \psi}{\partial x}\right]\times\frac{x}{\sqrt{x^2+y^2+z^2+t^2}}+\frac{\partial f}{\partial r}\times\frac{\partial}{\partial x}\left(\frac{x}{\sqrt{x^2+y^2+z^2+t^2}}\right)$$
$$+\left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \theta}\right)\times\frac{\partial r}{\partial x}+\frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \theta}\right)\times\frac{\partial \theta}{\partial x}+\frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \theta}\right)\times\frac{\partial \varphi}{\partial x}+\frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \theta}\right)\times\frac{\partial \psi}{\partial x}\right]\times\frac{-y}{x^2+y^2}+\frac{\partial f}{\partial \theta}\times\frac{\partial}{\partial x}\left(\frac{-y}{x^2+y^2}\right)$$
$$+\left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \varphi}\right)\times\frac{\partial r}{\partial x}+\frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \varphi}\right)\times\frac{\partial \theta}{\partial x}+\frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \varphi}\right)\times\frac{\partial \varphi}{\partial x}+\frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \varphi}\right)\times\frac{\partial \psi}{\partial x}\right]\times\frac{-xz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}}+\frac{\partial f}{\partial \varphi}\times\frac{\partial}{\partial x}\left(\frac{-xz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}}\right)$$
$$+\left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial r}{\partial x}+\frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial \theta}{\partial x}+\frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial \varphi}{\partial x}+\frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial \psi}{\partial x}\right]\times\frac{-xt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}+\frac{\partial f}{\partial \psi}\times\frac{\partial}{\partial x}\left(\frac{-xt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right)$$
$$+\left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial r}{\partial y}+\frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial \theta}{\partial y}+\frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial \varphi}{\partial y}+\frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial \psi}{\partial y}\right]\times\frac{y}{\sqrt{x^2+y^2+z^2+t^2}}+\frac{\partial f}{\partial r}\times\frac{\partial}{\partial y}\left(\frac{y}{\sqrt{x^2+y^2+z^2+t^2}}\right)$$

$$+\left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \theta}\right)\times\frac{\partial r}{\partial y}+\frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \theta}\right)\times\frac{\partial \theta}{\partial y}+\frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \theta}\right)\times\frac{\partial \varphi}{\partial y}+\frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \theta}\right)\times\frac{\partial \psi}{\partial y}\right]\times\frac{x}{x^2+y^2}+\frac{\partial f}{\partial \theta}\times\frac{\partial}{\partial y}\left(\frac{x}{x^2+y^2}\right)$$
$$+\left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \varphi}\right)\times\frac{\partial r}{\partial y}+\frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \varphi}\right)\times\frac{\partial \theta}{\partial y}+\frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \varphi}\right)\times\frac{\partial \varphi}{\partial y}+\frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \varphi}\right)\times\frac{\partial \psi}{\partial y}\right]\times\frac{-yz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}}+\frac{\partial f}{\partial \varphi}\times\frac{\partial}{\partial y}\left(\frac{-yz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}}\right)$$
$$+\left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial r}{\partial y}+\frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial \theta}{\partial y}+\frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial \varphi}{\partial y}+\frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial \psi}{\partial y}\right]\times\frac{-yt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}+\frac{\partial f}{\partial \psi}\times\frac{\partial}{\partial y}\left(\frac{-yt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right)$$

$$+\left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial r}{\partial z}+\frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial \theta}{\partial z}+\frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial \varphi}{\partial z}+\frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial \psi}{\partial z}\right]\times\frac{z}{\sqrt{x^2+y^2+z^2+t^2}}+\frac{\partial f}{\partial r}\times\frac{\partial}{\partial z}\left(\frac{z}{\sqrt{x^2+y^2+z^2+t^2}}\right)$$
$$+\left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \varphi}\right)\times\frac{\partial r}{\partial z}+\frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \varphi}\right)\times\frac{\partial \theta}{\partial z}+\frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \varphi}\right)\times\frac{\partial \varphi}{\partial z}+\frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \varphi}\right)\times\frac{\partial \psi}{\partial z}\right]\times\frac{\sqrt{x^2+y^2}}{x^2+y^2+z^2}+\frac{\partial f}{\partial \varphi}\times\frac{\partial}{\partial z}\left(\frac{\sqrt{x^2+y^2}}{x^2+y^2+z^2}\right)$$
$$+\left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial r}{\partial z}+\frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial \theta}{\partial z}+\frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial \varphi}{\partial z}+\frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial \psi}{\partial z}\right]\times\frac{-zt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}+\frac{\partial f}{\partial \psi}\times\frac{\partial}{\partial z}\left(\frac{-zt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right)$$

$$+\left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial r}{\partial t}+\frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial \theta}{\partial t}+\frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial \varphi}{\partial t}+\frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial r}\right)\times\frac{\partial \psi}{\partial t}\right]\times\frac{t}{\sqrt{x^2+y^2+z^2+t^2}}+\frac{\partial f}{\partial r}\times\frac{\partial}{\partial t}\left(\frac{t}{\sqrt{x^2+y^2+z^2+t^2}}\right)$$
$$+\left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial r}{\partial t}+\frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial \theta}{\partial t}+\frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial \varphi}{\partial t}+\frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \psi}\right)\times\frac{\partial \psi}{\partial t}\right]\times\frac{\sqrt{x^2+y^2+z^2}}{x^2+y^2+z^2+t^2}+\frac{\partial f}{\partial \psi}\times\frac{\partial}{\partial t}\left(\frac{\sqrt{x^2+y^2+z^2}}{x^2+y^2+z^2+t^2}\right)$$

$$= \left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial r}\right) \times \frac{x}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial r}\right) \times \frac{-y}{x^2+y^2} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial r}\right) \times \frac{-xz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial r}\right) \times \frac{-xt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right]$$

$$\times \frac{x}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial f}{\partial r} \times \frac{y^2+z^2+t^2}{(x^2+y^2+z^2+t^2)^{3/2}}$$

$$+ \left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \theta}\right) \times \frac{x}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \theta}\right) \times \frac{-y}{x^2+y^2} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \theta}\right) \times \frac{-xz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \theta}\right) \times \frac{-xt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right]$$

$$\times \frac{-y}{x^2+y^2} + \frac{\partial f}{\partial \theta} \times \frac{2xy}{(x^2+y^2)^2}$$

$$+ \left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{x}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{-y}{x^2+y^2} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{-xz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{-xt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right]$$

$$\times \frac{-xz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}} + \frac{\partial f}{\partial \varphi} \times \frac{-z(y^2z^2+y^4-x^2y^2-2x^4)}{(x^2+y^2+z^2)^2(x^2+y^2)^{3/2}}$$

$$+ \left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{x}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{-y}{x^2+y^2} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{-xz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{-xt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right]$$

$$\times \frac{-xt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}} + \frac{\partial f}{\partial \psi} \times \frac{-t(z^4+2y^2z^2-x^2z^2+z^2t^2+y^4-x^2y^2+y^2t^2-2x^4)}{(x^2+y^2+z^2+t^2)^2(x^2+y^2+z^2)^{3/2}}$$

$$+ \left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial r}\right) \times \frac{y}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial r}\right) \times \frac{x}{x^2+y^2} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial r}\right) \times \frac{-yz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial r}\right) \times \frac{-yt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right]$$

$$\times \frac{y}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial f}{\partial r} \times \frac{x^2+z^2+t^2}{(x^2+y^2+z^2+t^2)^{3/2}}$$

$$+ \left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \theta}\right) \times \frac{y}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \theta}\right) \times \frac{x}{x^2+y^2} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \theta}\right) \times \frac{-yz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \theta}\right) \times \frac{-yt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right]$$

$$\times \frac{x}{x^2+y^2} + \frac{\partial f}{\partial \theta} \times \frac{-2xy}{(x^2+y^2)^2}$$

$$+ \left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{y}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{x}{x^2+y^2} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{-yz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{-yt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right]$$

$$\times \frac{-yz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}} + \frac{\partial f}{\partial \varphi} \times \frac{-z(x^2z^2+x^4-x^2y^2-2y^4)}{(x^2+y^2+z^2)^2(x^2+y^2)^{3/2}}$$

$$+ \left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{y}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{x}{x^2+y^2} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{-yz}{(x^2+y^2+z^2)\sqrt{x^2+y^2}} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{-yt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right]$$

$$\times \frac{-yt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}} + \frac{\partial f}{\partial \psi} \times \frac{-t(z^4+2x^2z^2-y^2z^2+z^2t^2+x^4-x^2y^2+x^2t^2-2y^4)}{(x^2+y^2+z^2+t^2)^2(x^2+y^2+z^2)^{3/2}}$$

$$+ \left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial r}\right) \times \frac{z}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial r}\right) \times \frac{\sqrt{x^2+y^2}}{x^2+y^2+z^2} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial r}\right) \times \frac{-zt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right] \times \frac{z}{\sqrt{x^2+y^2+z^2+t^2}}$$

$$+ \frac{\partial f}{\partial r} \times \frac{x^2+y^2+t^2}{(x^2+y^2+z^2+t^2)^{3/2}}$$

$$+ \left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{z}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{\sqrt{x^2+y^2}}{x^2+y^2+z^2} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{-zt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right] \times \frac{\sqrt{x^2+y^2}}{x^2+y^2+z^2}$$

$$+ \frac{\partial f}{\partial \varphi} \times \frac{-2z\sqrt{x^2+y^2}}{(x^2+y^2+z^2)^2}$$

$$+ \left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{z}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{\sqrt{x^2+y^2}}{x^2+y^2+z^2} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{-zt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}\right] \times \frac{-zt}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}$$

$$+ \frac{\partial f}{\partial \psi} \times \frac{-t(y^4+2x^2y^2-y^2z^2+y^2t^2+x^4-x^2z^2+x^2t^2-2z^4)}{(x^2+y^2+z^2+t^2)^2(x^2+y^2+z^2)^{3/2}}$$

$$+ \left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial r}\right) \times \frac{t}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial r}\right) \times \frac{\sqrt{x^2+y^2+z^2}}{x^2+y^2+z^2+t^2}\right] \times \frac{t}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial f}{\partial r} \times \frac{x^2+y^2+z^2}{(x^2+y^2+z^2+t^2)^{3/2}}$$

$$+ \left[\frac{\partial}{\partial r}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{t}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{\sqrt{x^2+y^2+z^2}}{x^2+y^2+z^2+t^2}\right] \times \frac{\sqrt{x^2+y^2+z^2}}{x^2+y^2+z^2+t^2} + \frac{\partial f}{\partial \psi} \times \frac{-2t\sqrt{x^2+y^2+z^2}}{(x^2+y^2+z^2+t^2)^2}$$

$$= \frac{\partial}{\partial r}\left(\frac{\partial f}{\partial r}\right) + \frac{\partial f}{\partial r} \times \frac{3}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \theta}\right) \times \frac{1}{x^2+y^2} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{1}{x^2+y^2+z^2} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{1}{x^2+y^2+z^2+t^2}$$

$$- \frac{\partial f}{\partial \varphi} \times \left[\frac{z(y^2z^2+y^4-x^2y^2-2x^4)}{(x^2+y^2+z^2)^2(x^2+y^2)^{3/2}} + \frac{z(x^2z^2+x^4-x^2y^2-2y^4)}{(x^2+y^2+z^2)^2(x^2+y^2)^{3/2}} + \frac{2z\sqrt{x^2+y^2}}{(x^2+y^2+z^2)^2}\right]$$

$$- \frac{\partial f}{\partial \psi} \times \left[\frac{t(z^4+2y^2z^2-x^2z^2+z^2t^2+y^4-x^2y^2+y^2t^2-2x^4)}{(x^2+y^2+z^2+t^2)^2(x^2+y^2+z^2)^{3/2}}\right]$$

$$- \frac{\partial f}{\partial \psi} \times \left[\frac{t(x^4+2x^2z^2-y^2z^2+z^2t^2+z^4-x^2y^2+x^2t^2-2y^4)}{(x^2+y^2+z^2+t^2)^2(x^2+y^2+z^2)^{3/2}}\right]$$

$$- \frac{\partial f}{\partial \psi} \times \left[\frac{t(y^4+2x^2y^2-y^2z^2+y^2t^2+x^4-x^2z^2+x^2t^2-2z^4)}{(x^2+y^2+z^2+t^2)^2(x^2+y^2+z^2)^{3/2}}\right]$$

$$- \frac{\partial f}{\partial \psi} \times \left[\frac{2t\sqrt{x^2+y^2+z^2}}{(x^2+y^2+z^2+t^2)^2}\right]$$

$$= \frac{\partial}{\partial r}\left(\frac{\partial f}{\partial r}\right) + \frac{\partial f}{\partial r} \times \frac{3}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \theta}\right) \times \frac{1}{x^2+y^2} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{1}{x^2+y^2+z^2} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{1}{x^2+y^2+z^2+t^2}$$

$$- \frac{\partial f}{\partial \varphi} \times \frac{z[(y^4-x^2y^2-2x^4)+(x^4-x^2y^2-2y^4)+2(x^2+y^2)^2]}{(x^2+y^2+z^2)^2(x^2+y^2)^{\frac{3}{2}}}$$

$$- \frac{\partial f}{\partial \psi} \times \frac{t[(z^4+z^2t^2+y^4+y^2t^2-2x^4)+(x^4+z^2t^2+z^4+x^2t^2-2y^4)+(y^4+y^2t^2+x^4+x^2t^2-2z^4)+2(x^2+y^2+z^2)^2]}{(x^2+y^2+z^2+t^2)^2(x^2+y^2+z^2)^{3/2}}$$

$$= \frac{\partial}{\partial r}\left(\frac{\partial f}{\partial r}\right) + \frac{\partial f}{\partial r} \times \frac{3}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \theta}\right) \times \frac{1}{x^2+y^2} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{1}{x^2+y^2+z^2} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{1}{x^2+y^2+z^2+t^2}$$

$$- \frac{\partial f}{\partial \varphi} \times \frac{z[(y^2z^2+y^4)+(x^2z^2+x^4)+2x^2y^2]}{(x^2+y^2+z^2)^2(x^2+y^2)^{\frac{3}{2}}} - \frac{\partial f}{\partial \psi} \times \frac{2t[(z^4+z^2t^2)+(y^4+y^2t^2)+(x^4+x^2t^2)+2(x^2y^2+x^2z^2+y^2z^2)]}{(x^2+y^2+z^2+t^2)^2(x^2+y^2+z^2)^{3/2}}$$

$$= \frac{\partial}{\partial r}\left(\frac{\partial f}{\partial r}\right) + \frac{\partial f}{\partial r} \times \frac{3}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \theta}\right) \times \frac{1}{x^2+y^2} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{1}{x^2+y^2+z^2} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{1}{x^2+y^2+z^2+t^2}$$

$$- \frac{\partial f}{\partial \varphi} \times \frac{z(x^2+y^2)(x^2+y^2+z^2)}{(x^2+y^2+z^2)^2(x^2+y^2)^{3/2}} - \frac{\partial f}{\partial \psi} \times \frac{2t(x^2+y^2+z^2)(x^2+y^2+z^2+t^2)}{(x^2+y^2+z^2+t^2)^2(x^2+y^2+z^2)^{3/2}}$$

$$= \frac{\partial}{\partial r}\left(\frac{\partial f}{\partial r}\right) + \frac{\partial f}{\partial r} \times \frac{3}{\sqrt{x^2+y^2+z^2+t^2}} + \frac{\partial}{\partial \theta}\left(\frac{\partial f}{\partial \theta}\right) \times \frac{1}{x^2+y^2} + \frac{\partial}{\partial \varphi}\left(\frac{\partial f}{\partial \varphi}\right) \times \frac{1}{x^2+y^2+z^2} + \frac{\partial}{\partial \psi}\left(\frac{\partial f}{\partial \psi}\right) \times \frac{1}{x^2+y^2+z^2+t^2}$$

$$- \frac{\partial f}{\partial \varphi} \times \frac{z}{(x^2+y^2+z^2)\sqrt{x^2+y^2}} - \frac{\partial f}{\partial \psi} \times \frac{2t}{(x^2+y^2+z^2+t^2)\sqrt{x^2+y^2+z^2}}$$

$$= \frac{\partial^2 f}{\partial r^2} + \frac{3}{r}\frac{\partial f}{\partial r} + \frac{1}{r^2 cos^2\psi\, cos^2\varphi}\frac{\partial^2 f}{\partial \theta^2} + \frac{1}{r^2 cos^2\psi}\frac{\partial^2 f}{\partial \varphi^2} - \frac{tan\,\varphi}{r^2 cos^2\psi}\frac{\partial f}{\partial \varphi} + \frac{1}{r^2}\frac{\partial^2 f}{\partial \psi^2} - \frac{2\,tan\,\psi}{r^2}\frac{\partial f}{\partial \psi}$$