Testing new derivative functions

esdiff package

$$\frac{\mathrm{d}\mathbf{f}}{\mathrm{d}\mathbf{x}_0}, \quad \frac{\partial f}{\partial x}, \quad \frac{\mathrm{d}^2 f}{\mathrm{d}x^2}, \quad \frac{\partial^2 f}{\partial x^2}$$

derivatives package

$$\frac{\mathrm{d}\mathbf{f}}{\mathrm{d}\mathbf{x}_0}, \quad \frac{\partial f}{\partial x} \quad \frac{\mathrm{d}^2 f}{\mathrm{d}x^2}, \quad \frac{\partial^2 f}{\partial x^2}$$