

$$A = \begin{pmatrix} \frac{\partial(Ob{s}_1)}{\partial(physics_1)} & \frac{\partial(Ob{s}_1)}{\partial(physics_2)} & \ddots & \frac{\partial(Ob{s}_1)}{\partial(physics_n)} \\ \frac{\partial(Ob{s}_2)}{\partial(physics_1)} & \frac{\partial(Ob{s}_2)}{\partial(physics_2)} & \ddots & \frac{\partial(Ob{s}_2)}{\partial(physics_n)} \\ \vdots & \vdots & \ddots & \vdots \\ \frac{\partial(Ob{s}_m)}{\partial(physics_1)} & \frac{\partial(Ob{s}_m)}{\partial(physics_2)} & \ddots & \frac{\partial(Ob{s}_m)}{\partial(physics_n)} \end{pmatrix}$$