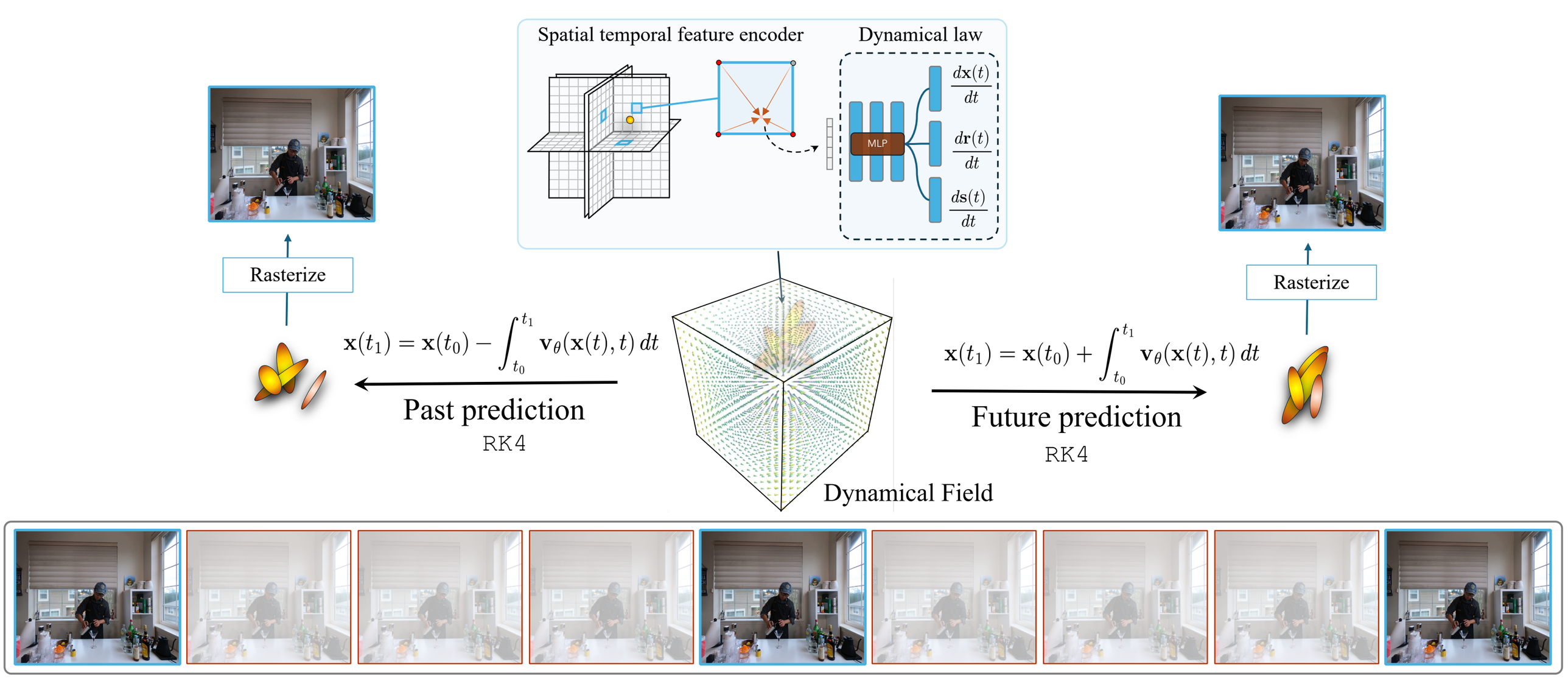
Spatial temporal feature encoder
Dynamical law
MLP
$\frac{d\mathbf{x}(t)}{dt}$
$\frac{d\mathbf{r}(t)}{dt}$
$\frac{d\mathbf{s}(t)}{dt}$
Rasterize
Rasterize
$\mathbf{x}(t_1) = \mathbf{x}(t_0) - \int_{t_0}^{t_1} \mathbf{v}_\theta(\mathbf{x}(t), t)\, dt$
Past prediction
RK4
$\mathbf{x}(t_1) = \mathbf{x}(t_0) + \int_{t_0}^{t_1} \mathbf{v}_\theta(\mathbf{x}(t), t)\, dt$
Future prediction
RK4
Dynamical Field