

$$\hat{\mathbf{x}}_1^- = \hat{\xi} \hat{\mathbf{x}}_0 + \int_{\Omega} \boldsymbol{\Psi}(\mathbf{r}') f\left(\boldsymbol{\phi}^\top(\mathbf{r}') \hat{\mathbf{x}}_0\right) d\mathbf{r}' \hat{\boldsymbol{\theta}}$$

