PARAMETRIZATION
$$d(t)$$

$$d(t) = \begin{pmatrix} u(t) \\ v(t) \end{pmatrix} \quad d'(t) = \begin{pmatrix} du \\ olt \\ olt \end{pmatrix} \quad d'(o) = \begin{pmatrix} oly \\ olt \\ olt \end{pmatrix} = \begin{pmatrix} du \\ olt \\ olt \end{pmatrix}$$

$$d(u,v) = (x(u,v), y(u,v), \pm(u,v))$$

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$$d(u,v) = \frac{d}{dt} (d \circ d(t))|_{t=0} = \frac{d}{dt} (d \circ d(t)|_{t=0} = \frac{d}{dt} (d \circ d(t)|_{t=0} = \frac{d}{dt} ($$

$$= \left(\frac{\partial f}{\partial t} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t),V(t)) \Big|_{t=0} \right) = \left(\frac{\partial \chi}{\partial u} \times (U(t$$