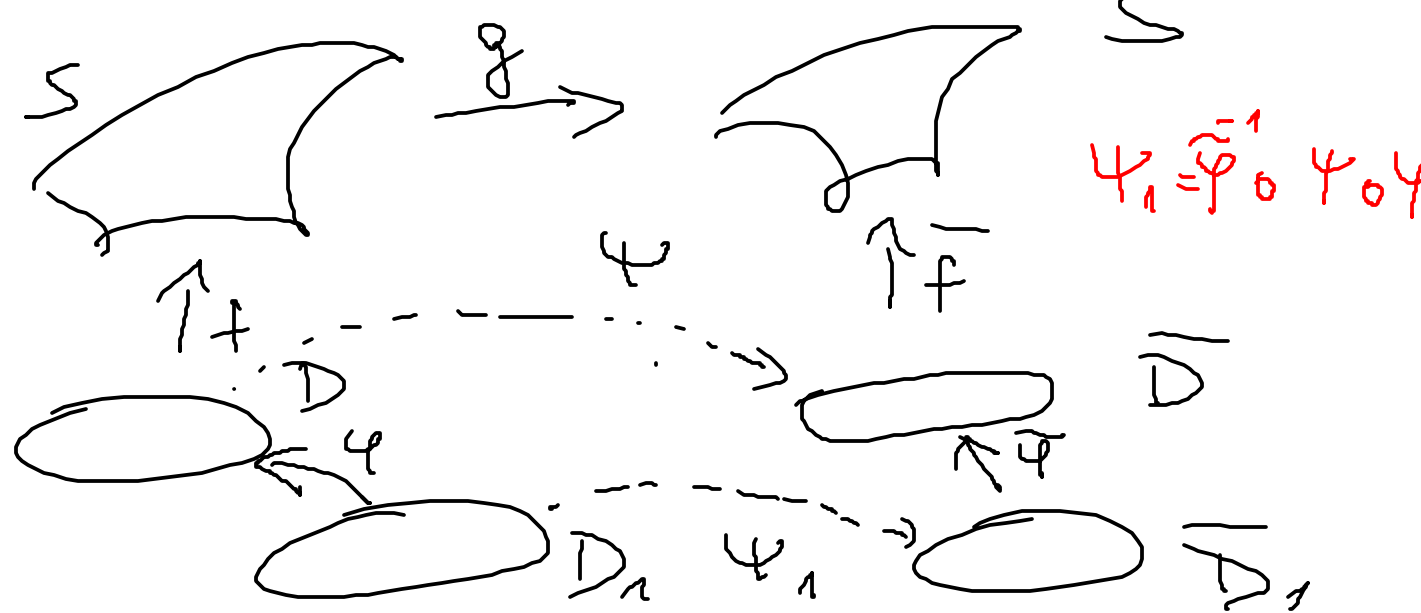
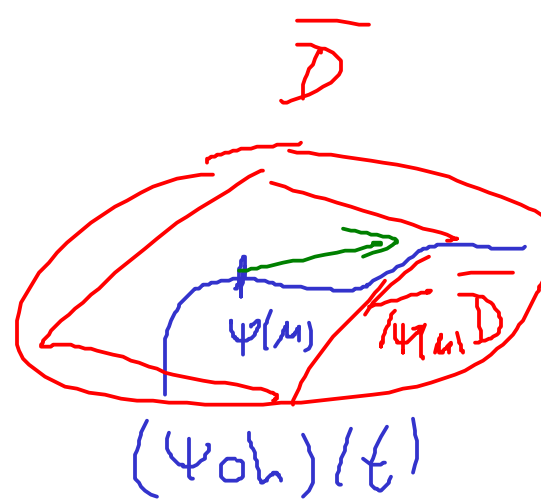
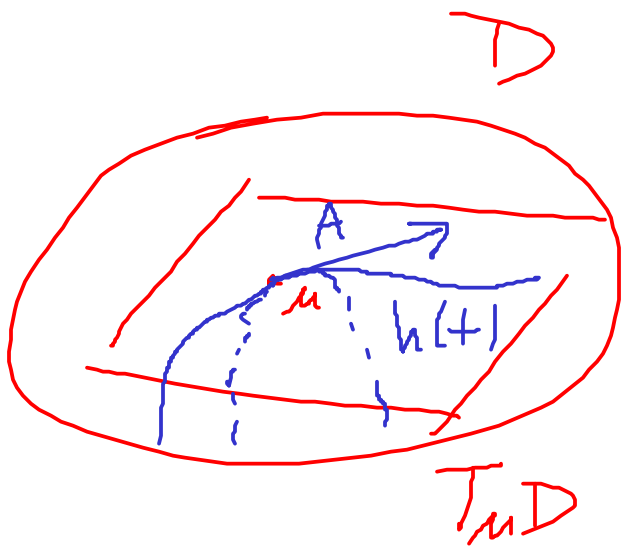


$f \circ \varphi = f \circ \varphi$ nova parametrizaçao





$$h(0) = m$$

$$\frac{dh(0)}{dt} = A$$

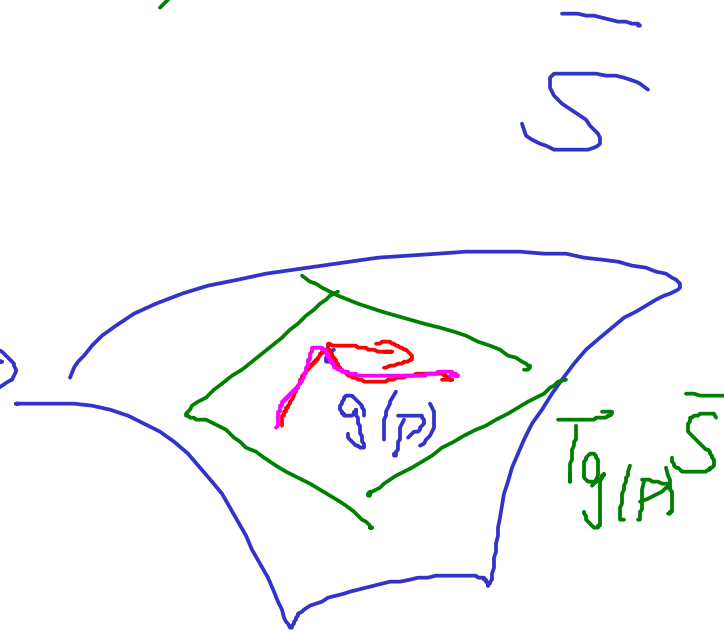
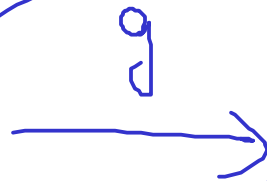
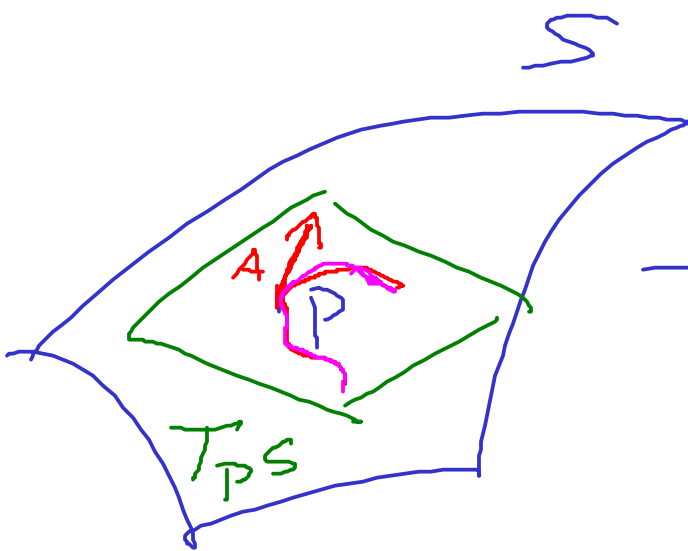
Univariate zobrazení:

$$T_m D \rightarrow T_{\psi(m)} \bar{D}$$

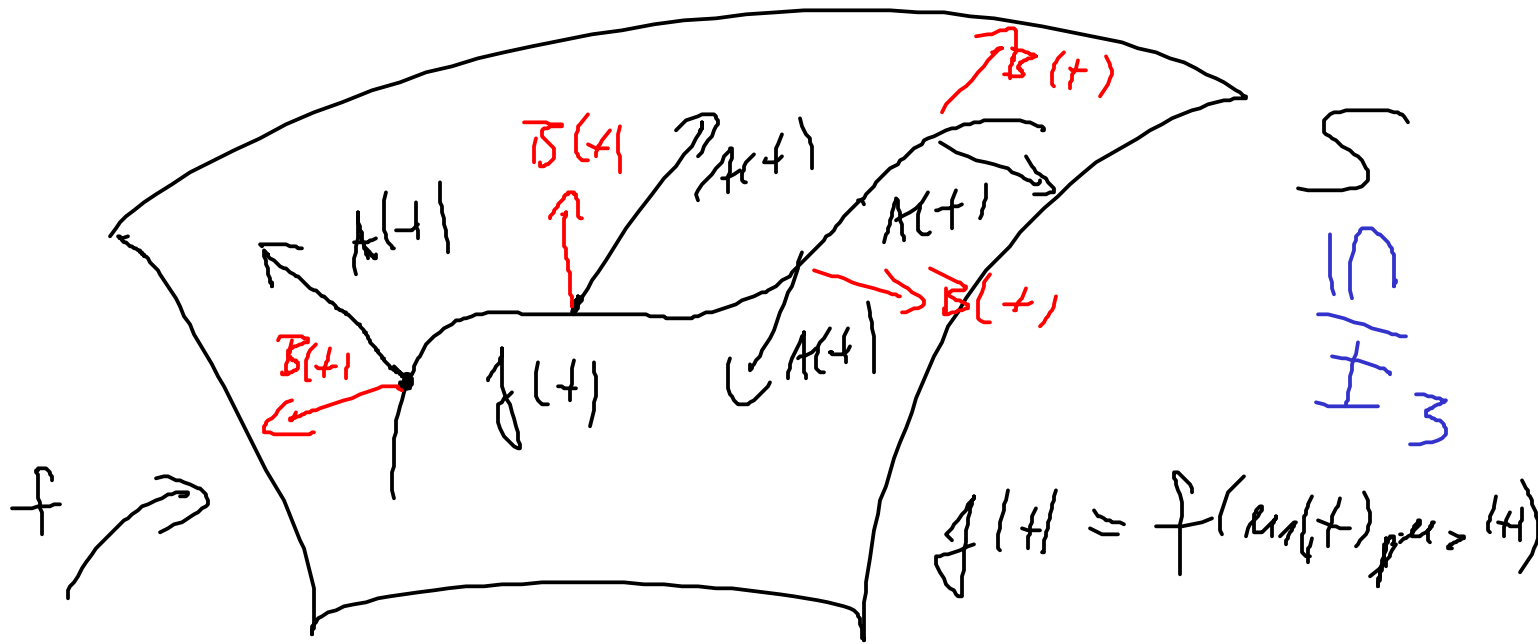
$$A \mapsto \frac{d(\psi \circ h)(0)}{dt}$$

$$\psi: D \rightarrow \bar{D}$$

$$\psi = (\psi_1(x_1, x_2), \psi_2(x_1, x_2))$$



$$T_p g : T_p S \rightarrow T_{g(p)} \bar{S}$$



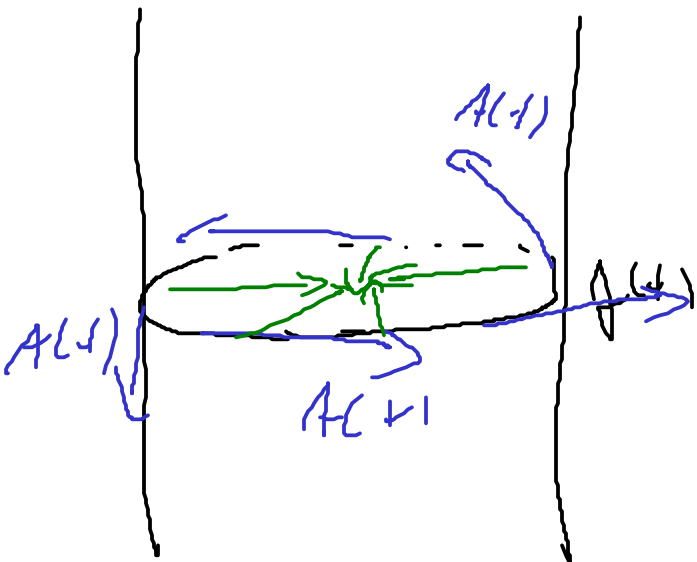
$(m_1(t), m_2(t))$

$$j: I \rightarrow S$$

$$B(t), A(t) \in T_{f(t)} S \subseteq V$$

$f_1(m_1(t), m_2(t))$
 $f_2(m_1(t), m_2(t))$

kompletní E_3



$$\|A(t)\| = 1$$

tedy ke

normě

$$\frac{dA(t)}{dt} \perp A(t)$$

$$(A(t), A(t)) = 1 \quad / \frac{d}{dt}$$

$$\left(\frac{dA(t)}{dt}, A(t) \right) = 0$$

$\Rightarrow \frac{dA(t)}{dt}$ nemá žádné póly

k noleci !

$$\frac{\nabla A(t)}{dt} = \text{Proj}_{\mathcal{H}(t)} \left(\frac{dA(t)}{dt} \right)$$

$$f_{ij} = \vec{T}_{ij}^1 f_1 + \vec{T}_{ij}^2 f_2 + \underbrace{\varphi_{ij}}_{\text{faktor } (-1)^m} \cdot m$$

$$\underbrace{(f_{ij}, m)}_{= h_{ij}} = \varphi_{ij}$$

$$\frac{\nabla A(t)}{dt} = \frac{\nabla U_1(t)}{dt} \cdot f_1(u_1(t), u_2(t)) + \frac{\nabla U_2(t)}{dt} \cdot f_2(u_1(t), u_2(t))$$