

3

$$\begin{pmatrix} \Lambda & 0 \\ 0 & \nabla^4 \end{pmatrix}$$

$$Y(X(t)) \mapsto \Lambda^{-1/2} \int \sim \begin{pmatrix} I & \\ & \Lambda \nabla^4 \Lambda \end{pmatrix}$$

of zero curvings of ∇f in B

~~$\nabla^2 Y$~~

$\nabla Y|_t$, $\nabla^2 Y$ are still independent!

need to substitute $t \mapsto \begin{pmatrix} \Lambda & \\ & \nabla^4 \end{pmatrix} t$

to get the result!

make a change of var with this matrix.

For non-stat fields do the ^{change of var} ~~computation~~ at every point for things to work.