- What do sing. fibers
  serve for ?

$$f : M \longrightarrow \underline{N} \ni y \rightsquigarrow f^{-1}(y)$$

TARGET

Can serve for constructing

certain invariants in the target.

$\left[\quad \Sigma(f) \subset M : \text{set of } \underline{sing.} \text{ of type } \Sigma \right.$

$\left[\quad \mathcal{F}(f) \subset N : \text{set of pts in } N \text{ over} \right.$

which lies a sing. fiber of type $\mathcal{F}$

$[\overline{\Sigma(f)}]^* \in H^*(M) \quad$ HOMOTOPY INV.

$[\overline{\mathcal{F}(f)}]^* \in H^*(N) \quad$ COBORDISM INV.