

§1. Introduction

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- What does **singular fiber** refer to?

$$f: M \rightarrow N \quad C^\infty \text{ map}$$

$$\begin{array}{c} \psi \\ \gamma \end{array} : \text{sing. value}$$

sing. fiber over γ means

the map germ

$$f: (M, \underbrace{f^{-1}(\gamma)}_{\uparrow}) \rightarrow (N, \gamma)$$

$$\dim > 0 \quad \text{if} \quad \dim M > \dim N$$