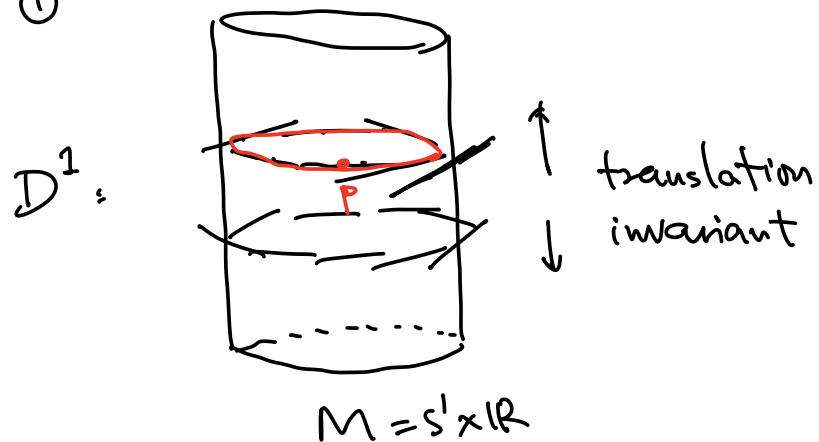


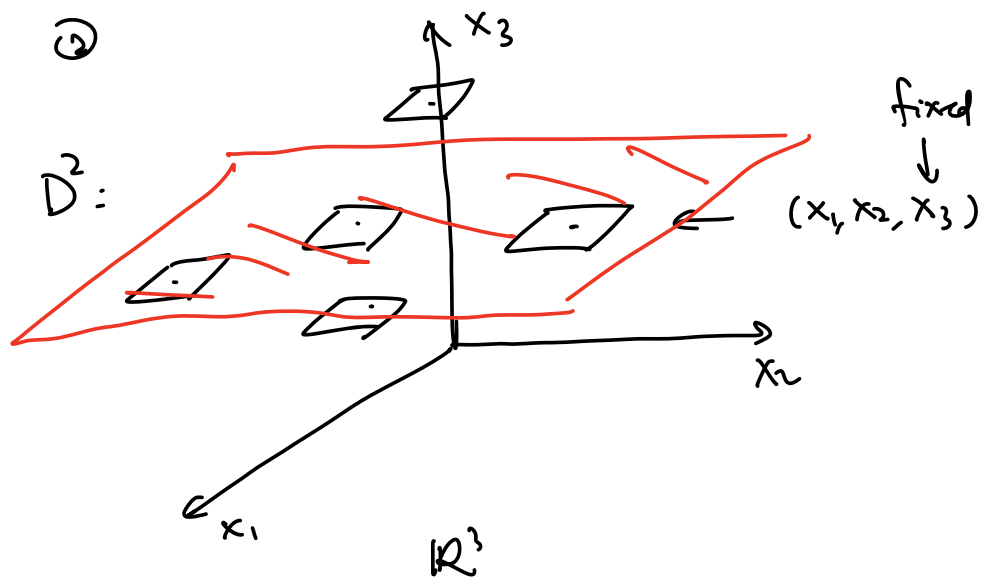
# Examples of distribution

①



For point  $p \in \overset{S^1 \times \mathbb{R}}{M}$ ,  $\exists$  a 1-dim (emb) submfd  $N \subset M$ , passing through  $p$ , and  $T_q N \subset D^1(q)$  for any  $q \in N$ .

②



$D^2(x_1, x_2, x_3) = \text{span}_{\mathbb{R}} \left( \frac{\partial}{\partial x_1}, \frac{\partial}{\partial x_2} \right)$

Then  $\forall p \in \mathbb{R}^3$ ,  $\exists$  a 2-dim submfd, that is  $\mathbb{R}^2(x_1, x_2)$ , s.t.  $T_q \mathbb{R}^2 = D^2(q)$  for any  $q \in \mathbb{R}^2$ .