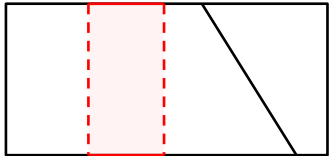
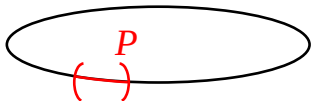


$\pi^{-1}(u)$  $f_u$  $u \times F$  $F = [-L, L]$  $\pi$  $\pi'$  $S^1$  $\text{Id}$  $u$  $u$  open