$$S = S_{(-1,1)}^{1} = \{(x,y) \in \mathbb{R}^{2} \mid (x+1)^{2} + (y-1)^{2} = 1\}$$

$$C = \{(\frac{1}{n}, y) \in \mathbb{R}^{2} \mid y \in [0,1], n \in \mathbb{N} \setminus \{0\}\}$$

$$I_{x} = \{(x,0) \in \mathbb{R}^{2} \mid x \in (0,1]\}$$

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$$\times \in S$$
,  $y \in \widetilde{X} \implies \pi_1(X, x) = \mathbb{Z} \neq \{e\} = \pi_1(X, y)$