6 top. group 6 = Aut (D&Z) for example Suppose that To(6) is abelian and that the canonical map $G \xrightarrow{\epsilon} \pi_{o}(G)$ is split 600 = 1d Then the natural map $[x, B61 \xrightarrow{\delta} H^{1}(X, \pi_{\delta}(6))$ 11 comme To (6) discrete abelian H1 (X, To (6)) Naturality:

 $[X,B6] \longrightarrow [X,B\pi_{o}(6)] \xrightarrow{Br_{*}} [X,B6]$ $Br_{*} \circ B2_{*} = id$

€: X → Y induces commulative

H'(Y, To(6)) => (Y, BTo(6)] = (Y, B6]

 $H^{1}(X, T_{0}(6)) \xrightarrow{\sim} \{X, B T_{0}(6)\} \xrightarrow{\sim} \{X, B G\}$ $f^{*} \uparrow \qquad \qquad \uparrow f^{*}$

is surjective and splits naturally (set Movehally)