$$
\begin{gathered}
E G \text { free action } \\
B G=E G / G \\
H_{G}^{*}(M)=H^{*}\left(E G \mathbf{z}_{G} M\right) \\
\text { free action } \\
H_{G}^{*}(M)=H^{*}(M / G) \\
H^{*}(E G / G)=H_{G}^{*}(E G) \\
\text { integration } \\
H_{G}^{*}(M) \xrightarrow{\mathfrak{p}_{*}} H_{G}^{*}(M / M)=H_{G}^{*}(G / G)=H_{G}^{*}(E G)=H^{*}(B G)=S\left(\mathfrak{g}^{\sharp}\right)^{G}=\mathcal{P}(\mathfrak{g})^{G}=\mathcal{P}(\mathfrak{t})^{W} \\
E \mathbb{C}^{U}=\mathbb{S}^{\infty} \\
B \mathbb{C}^{U}=\mathbb{P}^{\infty} \\
E G \times_{G} G / T=E T / T=B T \\
H_{G}^{*}(G / T)=H_{T}^{*}(G / G) \\
H_{G}^{*}(G \times M)=H_{H}^{*}(M)
\end{gathered}
$$

