of if $\chi(X) \neq 0$ where X is homotopy equivalent to a finite complex, see [6].

Now we shall consider the lifting up to homotopy problem for oriented fibrations with fibre $K(\pi,n)$.

Proposition 12: Suppose we have an oriented fibration $K(\pi,n) \to E \overset{p}{\to} X$ and suppose G is connected, then G lifts up to homotopy if and only if k is in the image of $i^*: H^{n+1}(X_G;\pi) \to H^{n+1}(X;\pi)$ where k classifies $E \overset{p}{\to} X$.

Proof: By an arguement similar to that in Proposition 9, we see that oriented fibrations are classified by $H^{n+1}(X;\pi)$. The condition that G is connected insures that if $E \overset{p}{\to} X$ is the pullback of a fibration over X_G, that fibration must be oriented also and so it corresponds to a cohomology class $\phi \in H^{n+1}(X_G,\pi)$ and $i^*(\phi) = k$.

We remark that the Hattori-Yoshida theorem for torus bundles may also be expressed in terms of i^*, namely there is a principal bundle lifting of G if and only if the characteristic class k is in the image of i^*. Note that we do not insist that G be connected here since the hypotheses of the Hattori-Yoshida theorem insist that the bundle over X_G be a principal torus bundle.

Proposition 12 gives an interpretation of i^* in terms of liftings. Now as a corollary to it we shall generalize