$$M \leftthreetimes G \times {}_{+}M \leftthreetimes {}_{-}M \rightthreetimes \underline{G} \to {}_{+}M \leftthreetimes {}_{-}M \rightthreetimes \underline{G}$$

$$M \underset{\text{coze}}{\leftthreetimes} G \times {}_{+}M \underset{\text{irr}}{\leftthreetimes} {}_{-}M \rightthreetimes \underline{G} \xrightarrow[\text{free}]{} {}_{+}M \underset{\text{irr}}{\leftthreetimes} {}_{-}M \rightthreetimes \underline{G}$$

$${}_{+}M \underset{\text{irr}}{\leftthreetimes} {}_{-}M \rightthreetimes \underline{G} \xrightarrow{\pi} {}_{+}M \underset{\text{irr}}{\leftthreetimes} {}_{-}M \rightthreetimes \underline{G} \,/\, M \underset{\text{coze}}{\leftthreetimes} G \text{ principal}$$

$$\ker\, T_A(\pi) = d_A\, M \leftthreetimes \underline{G} = \frac{\tau \in M \leftthreetimes {}_{-}M \rightthreetimes \underline{G}}{\tau = d_A\sigma\colon \quad \sigma \in M \leftthreetimes \underline{G}}$$