$$M \xrightarrow{\overrightarrow{B}_{\perp}(M)} M_{\mathbf{a}} \xrightarrow{\overrightarrow{B}_{\perp}(M')} M' = \operatorname{sym}_{\Pi_{\mathbf{a}}}(M)$$

$$\overrightarrow{B}(M) \xrightarrow{\overrightarrow{B}(M')} \overrightarrow{B}_{\parallel}(M')$$