



[111] Direction :
 1 class aligned with \vec{B}
 3 classes misaligned

$$\mathbf{B} \cdot \hat{\mathbf{S}} = B_{\parallel} S_{\parallel} + B_{\perp} S_{\perp}$$

$B_{\parallel} S_{\parallel}$: Zeeman splitting

$B_{\perp} S_{\perp}$: Mixing of the eigenstates
 \rightarrow Loss of polarization