



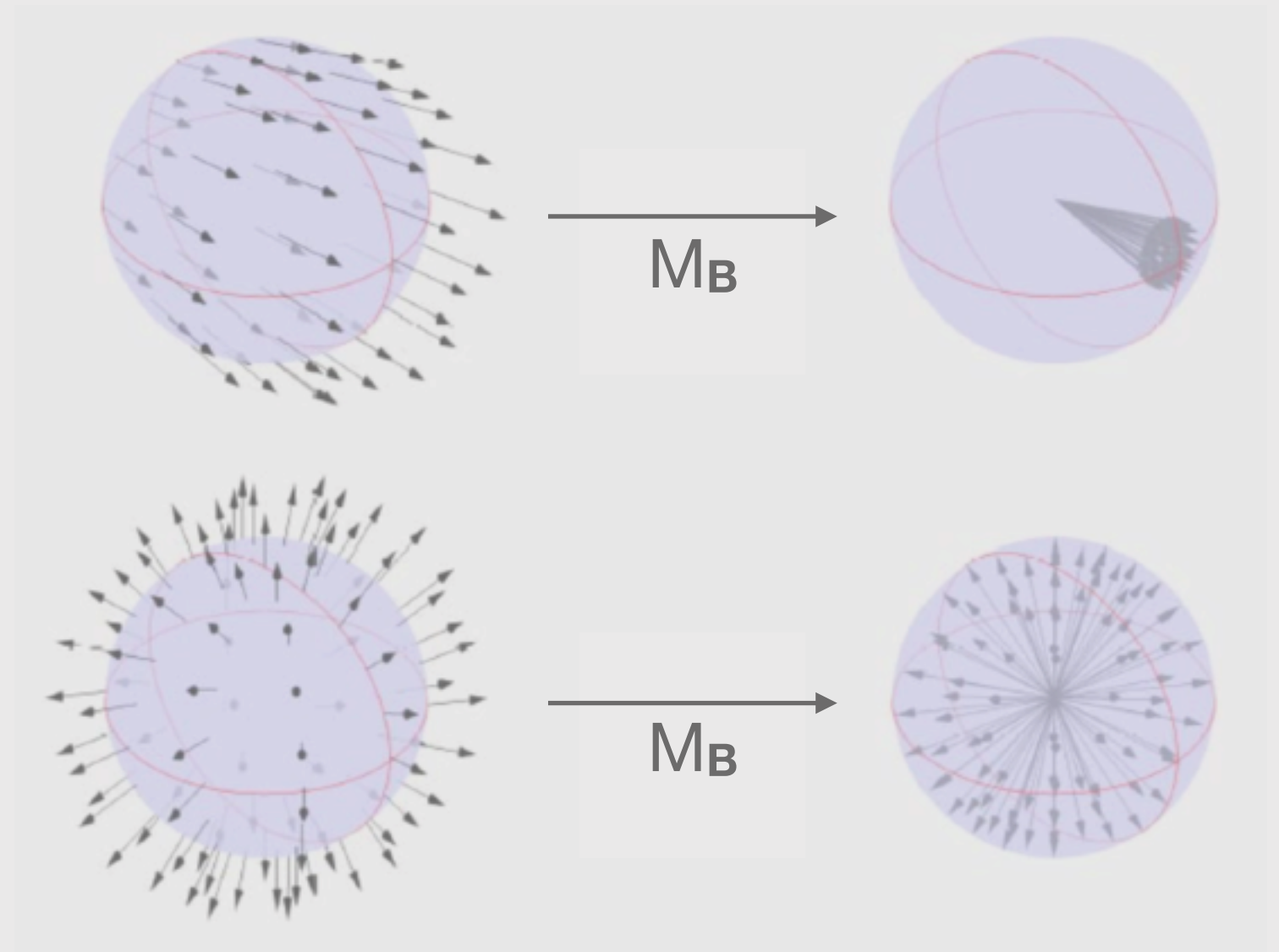
Introduction: Specific Topology Quantities 3

Topology Boundary and Topological Invariant

Poincare Index

$$M_{\mathbf{B}} : \mathbf{r} \mapsto \frac{\mathbf{B}(\mathbf{r})}{|\mathbf{B}(\mathbf{r})|}$$

For A, B type null,
they are given +1
and -1, respectively.



Introduction: Summary

B Field Topology

Vector Mapping

Poincare Index

Positive
Null

Negative
Null

Field Line Mapping

Mapping Gradient

Separatrix

QSL

Winding (2D)

Rotation
around
fix-point

Linking (2D)

Rotation
between
two lines