Symmetries in Electromagnetism

Symmetries are ...

integral part of our everyday lives,
described by group theory,
not only PEC/PMC planes in commercial software.

von Neumann-Wigner theorem

"Modes within each irreducible representation can not cross."
The theorem provides an interpretation of crossings and crossing avoidances observed in modal tracking.

Modal tracking

\[ \Lambda = \Gamma \Gamma' \Lambda \Gamma \]

Pexeso

Try it on-line,
or take one and enjoy :)