

# Physics/Maths Dictionary

This is of course just for humour. The languages are very different, yet very similar 🇬🇧. Feel free to add any elements to the table.

Mathematics	Physics
Curvature	Field Strength
Connection	Gauge Potential
A section of the fibre bundle	A Gauge Choice
Selecting a section of the fibre bundle	Fixing the Gauge
Lie Group	Continuous Symmetry Group
Lie Algebra	Infinitesimal Transformations
Exact Form	Work Form
Symplectomorphism	Canonical Transformation
Pseudo-riemannian manifold	Spacetime
Applying isomorphism induced by metric	Lowering the Index
Applying inverse of isomorphism induced by metric	Raising the Index
An Element of the Projective Space of a Hilbert Space of L2 Functions	A state in the Hilbert Space