## ${\bf Physics\text{-}Mathematics}_{{\rm by\ Hrvoje\ Nikoli\acute{c}}}{\bf \,\,Dictionary}$

physical language	mathematical language
physics	applied mathematics
mathematics	applied mathematics
abstract nonsense	mathematics
conjecture	vague idea
theorem	conjecture
rigorous theorem	theorem
proof	sketch of the proof
basic operations $+, -, \cdot, :$	commutative field theory
classical field theory	multi-variable calculus
mathematical analysis	calculus
linear algebra	matrix calculus
group theory	representation theory
abstract group theory	group theory
quantum mechanics	mumbo jumbo Dirac notation
fancy schmancy functional analysis	quantum mechanics
Hilbert space	rigged Hilbert space
Riemannian geometry	pseudo-Riemannian geometry
tensor	components of a tensor
contravariant vector	components of a vector
covariant vector	components of a one-form
fancy schmancy index-free notation	differential geometry