Program:

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import sys
from sympy import symbols, sin, cos
from sympy.galgebra.printer import Format, xpdf, Get_Program, Print_Function
from sympy.galgebra.ga import Ga
 Format()
 coords = symbols('t x y z', real=True)
 (st4d, g0, g1, g2, g3) = Ga.build('gamma*t|x|y|z', g=[1, -1, -1, -1], coords=coords)
 I = st4d.i
 (m, e) = symbols('m e')
 psi = st4d.mv('psi', 'spinor', f=True)
A = st4d.mv('A', 'vector', f=True)
 sig_z = g3*g0
 print ' \setminus \text{text} \{4 - \text{Vector Potential} \setminus : \setminus : \} \setminus \text{bm} \{A\} = ', A
 print '\\text{8-component real spinor\\;\\;\\\bm{\\psi} = ',psi
  dirac_{eq} = (st4d.grad*psi)*I*sig_z-e*A*psi-m*psi*g0
  dirac_eq = dirac_eq.simplify()
  dirac_eq.Fmt(3,r'%\text{Dirac_Equation\:\:\nabla_\bm{\psi}'+\
                                                                     r' I \sigma_{z}=\sigma_{x}=\sigma_{x}-\sigma_{x}=\sigma_{x}-\sigma_{x}=\sigma_{x}
xpdf(paper='landscape', prog=True)
Code Output:
                   4-Vector Potential \mathbf{A} = A^t \gamma_t + A^x \gamma_x + A^y \gamma_y + A^z \gamma_z
                   8-component real spinor \psi = \psi + \psi^{tx} \gamma_t \wedge \gamma_x + \psi^{ty} \gamma_t \wedge \gamma_y + \psi^{tz} \gamma_t \wedge \gamma_z + \psi^{xy} \gamma_x \wedge \gamma_y + \psi^{xz} \gamma_x \wedge \gamma_z + \psi^{yz} \gamma_y \wedge \gamma_z + \psi^{txyz} \gamma_t \wedge \gamma_x \wedge \gamma_y \wedge \gamma_z
                   Dirac Equation \nabla \psi I \sigma_z - e \mathbf{A} \psi - m \psi \gamma_t = 0 = (-e A^t \psi - e A^x \psi^{tx} - e A^y \psi^{ty} - e A^z \psi^{tz} - m \psi - \partial_u \psi^{tx} - \partial_z \psi^{txyz} + \partial_z \psi^{ty} + \partial_t \psi^{xy}) \gamma_t
                                                                                                                                                                              +\left(-eA^{t}\psi^{tx}-eA^{x}\psi-eA^{y}\psi^{xy}-eA^{z}\psi^{xz}+m\psi^{tx}+\partial_{y}\psi-\partial_{t}\psi^{ty}-\partial_{x}\psi^{xy}+\partial_{z}\psi^{yz}\right)\gamma_{x}
                                                                                                                                                                              +\left(eA^{x}\psi^{xy}-eA^{y}\psi-eA^{z}\psi^{yz}+\left(-eA^{t}+m\right)\psi^{ty}-\partial_{x}\psi+\partial_{t}\psi^{tx}-\partial_{y}\psi^{xy}-\partial_{z}\psi^{xz}\right)\gamma_{yy}
                                                                                                                                                                              +\left(eA^{x}\psi^{xz}+eA^{y}\psi^{yz}-eA^{z}\psi+\left(-eA^{t}+m\right)\psi^{tz}+\partial_{t}\psi^{txyz}-\partial_{z}\psi^{xy}+\partial_{u}\psi^{xz}-\partial_{x}\psi^{yz}\right)\gamma_{z}
                                                                                                                                                                              +\left(eA^{x}\psi^{ty}-eA^{y}\psi^{tx}-eA^{z}\psi^{txyz}+\left(-eA^{t}-m\right)\psi^{xy}-\partial_{t}\psi+\partial_{x}\psi^{tx}+\partial_{y}\psi^{ty}+\partial_{z}\psi^{tz}\right)\gamma_{t}\wedge\gamma_{x}\wedge\gamma_{y}
                                                                                                                                                                              +\left(-eA^{t}\psi^{xz}+eA^{x}\psi^{tz}+eA^{y}\psi^{txyz}-eA^{z}\psi^{tx}-m\psi^{xz}+\partial_{x}\psi^{txyz}+\partial_{z}\psi^{ty}-\partial_{x}\psi^{tz}-\partial_{t}\psi^{yz}\right)\gamma_{t}\wedge\gamma_{x}\wedge\gamma_{x}
                                                                                                                                                                              +\left(-eA^{t}\psi^{yz}-eA^{x}\psi^{txyz}+eA^{y}\psi^{tz}-eA^{z}\psi^{ty}-m\psi^{yz}-\partial_{z}\psi^{tx}+\partial_{u}\psi^{txyz}+\partial_{x}\psi^{tz}+\partial_{t}\psi^{xz}\right)\gamma_{t}\wedge\gamma_{u}\wedge\gamma_{z}
                                                                                                                                                                              +\left(-eA^{t}\psi^{txyz}-eA^{x}\psi^{yz}+eA^{y}\psi^{xz}-eA^{z}\psi^{xy}+m\psi^{txyz}+\partial_{z}\psi-\partial_{t}\psi^{tz}-\partial_{x}\psi^{xz}-\partial_{u}\psi^{yz}\right)\gamma_{x}\wedge\gamma_{y}\wedge\gamma_{z}
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