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**Equivalence of Dirac and Maxwell equations and quantum mechanics.** (English)

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The authors employ the formalism of Clifford bundles to further analyze the possible equivalence of the Dirac and Maxwell equations. In particular, they show how their viewpoint simplifies the work of A. A. Campolattaro [Int. J. Theor. Phys. 19, 99-126 (1980; Zbl 0439.35064); and 127-138 (1980; Zbl 0439.35065); ibid. 29, No. 2, 141-155 (1990; Zbl 0705.35137)]. The paper concludes with some implications of this research for quantum mechanics.

Reviewer: J.D.Zund (Las Cruces)

#### MSC:

53Z05 Applications of differential geometry to physics

81Q05 Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other equations of quantum mechanics

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#### Keywords:

Dirac equations; Clifford bundles; Maxwell equations

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