

# Existence of Solitary Waves for the Nonlinear Klein-Gordon-Maxwell and Schrödinger-Maxwell Equations

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## **Abstract**

In this paper we study the existence of radially symmetric solitary waves for nonlinear Klein-Gordon equations and nonlinear Schrödinger equations coupled with Maxwell equations. The method relies on a variational approach and the solutions are obtained as mountain-pass critical points for the associated energy functional.