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Charged compact boson stars in a theory of mass-less scalar field

In this work we propose to present some new results obtained
in a study of the phase diagram of charged compact boson stars
in a theory involving a massless complex scalar field with a conical potential
coupled to a U(1) gauge field and gravity. In particular, we present the
new bifurcation points obtained in the phase diagram of this theory.
The theory is seen to contain rich physics in a particular domain
of the phase diagram.

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