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Title: Robinson-Trautman spacetimes coupled to conformally invariant electrodynamics in higher dimensions

Abstract: We investigate Robinson-Trautman spacetimes sourced by a conformally invariant, power-like, non-linear electrodynamics in D > 4 dimensions. The general solution includes static dyonic black holes with Einstein-Kaehler horizon geometries. In contrast to the linear D > 4 theory, time-dependent solutions are also possible which describe black holes gaining (losing) mass by receiving (emitting) electromagnetic radiation. Some extensions beyond Einstein's gravity will be mentioned.