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Special structures on manifolds and a uniqueness result for a phi CPE metric in its conformal class

Abstract

We deal with the usual CPE equation arising in physics and differential geometry related to the vacuum static spaces and we extended it to a more general structure, an Einstein-type structure, naturally related to various type of solitons. We then show a uniqueness result for metrics in the conformal class of a representative with certain properties. The result even extends some recent Theorem of Qing and Yuan on the usual vacuum static space equation.