

A Cylindrically Symmetric Universe In Presence of Electromagnetic and Scalar Field

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Many workers have focussed their attention on the study of relativistic field equations in the presence of a scalar meson field. The idea has been initiated by Brahmachary [3] who considered the problem of the coupled gravitational and zero-rest-mass meson (zero spin) in the case of static spherically symmetric fields. He has shown that no exact solution of the scalar meson field can be found in strictly empty space. However, an approximate solution has been obtained by him which is valid within a certain region. The spherically symmetric zero-rest-mass scalar field has been also investigated by Bergmann and Leipnik [1], Buchdahl [4] has constructed reciprocal static solutions for axial and spherical fields. Janis,