General Relativity and Quantum Cosmology

Fermions in Brans-Dicke cosmology

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Using the Brans-Dicke theory of gravitation we put under investigation a hypothetical universe filled with a fermionic field (with a self interaction potential) and a matter constituent ruled by a barotropic equation of state. It is shown that the fermionic field (in combination with the Brans-Dicke scalar field) could be responsible for a final accelerated era, after an initial matter dominated period.

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