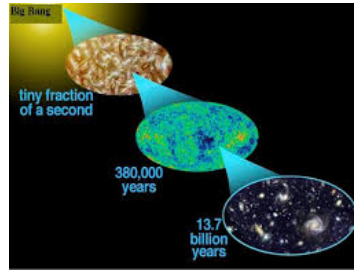


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Tracker Equation For Cosmological Tracking Solutions

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Tracker Equation For Cosmological Tracking Solutions

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ABSTRACT

The energy content of the universe may be supplemented by quintessence as a slowly-rolling scalar field. The understanding of tracker fields enables us to avoid the initial condition i.e. at the early age of the universe, match for the scalar and matter field which is very sensitive for the present observed ratio of their energy density nearly same today, as first one has very slow decreasing energy density than the last one. Quintessence [1] is considered to be missing energy component required to supplement the baryonic and matter density to achieve the critical density. [2, 3] This energy component has negative pressure with dynamical character and distributed inhomogeneously with slow time evolution. A form of quintessence called tracker fields has been introduced which avoids the coincidence problem [4]. We have calculated tracker function ω other than [5] and looking for its implication.

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