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Role of backreaction in an accelerating universe

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It is apparent from several observations that the present universe is undergoing an era of accelerated expansion. On the other hand, the observable universe exhibits inhomogeneities at various scales. The backreaction from inhomogeneities may affect the background metric in a non-trivial way. Here we explore a consequence of such

backreaction which may possibly alter the future evolution of the presently accelerating universe, leading to avoidance of the big-rip.

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