



Contribution ID: 248

Type: **Talk**

Large Scale Structure with interacting Vacuum: the non-linear regime in the post-Friedman approximation

Saturday, 5 December 2015 16:55 (20 minutes)

General-relativistic cosmological models where vacuum interacts with cold dark matter (iV-CDM models) maybe a good alternative to the standard LCDM scenario. The post-Friedmann approximation generalises to cosmology post-Newtonian methods and we have used it to extract frame-dragging, a pure GR effect, from standard N-body simulations in LCDM and in $f(R)$ models. After briefly summarising the iVCDM scenario and the post-Friedmann approximation I will discuss its extension from LCDM to the iVCDM case, concluding with an outlook on future work.

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Session Classification: 07 - Large scale structures