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Cosmological perturbations in the models of dark energy and modified gravity

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The quasistatic solutions of the matter density perturbation in various dark energy models and modified gravity models have been investigated in numerous papers. However, the oscillating solutions in those models have not been investigated enough so far. In this talk, the oscillating solutions are also examined by using appropriate approximations. And the behaviors of the matter density perturbation in $F(R)$ gravity models with singular evolutions of the physical parameters are shortly investigated as applications of the approximated calculations.

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