Title:	Reconstruction of dynamical dark energy potentials: Quintessence, tachyon and interacting models
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Abstract:	Dynamical models for dark energy are an alternative to the cosmological constant. It is important to investigate properties of perturbations in these models and go beyond the smooth FRLW cosmology. This allows us to distinguish different dark energy models with the same expansion history. For this, one often needs the potential for a particular expansion history. We study how such potentials can be reconstructed by obtaining closed formulae for potential or reducing the problem to quadrature. We consider three classes of models here: tachyons, quintessence and interacting dark energy. We present results for the constant w and the CPL parametrization. The method given here can be generalized to any arbitrary form of w(z).
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