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Interactive, F(R) and other cosmological models, recent observational data and H_0 tension

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Different cosmological scenarios are confronted with recent observational data, in particular, models with interaction of the dark components which are interpreted as scalar field with common potential, two models with bulk viscosity combined with power-law and logarithmic equations of states, F(R) models and other scenarios. The mentioned observations include the Pantheon catalog of Type Ia supernovae, the latest measurements of the Hubble parameter H(z) (cosmic chronometers), data from baryon acoustic oscillations and cosmic microwave background radiation. For these observations and some models we investigate possibilities to alleviate the Hubble constant tension problem.

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