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DE models with combined $H_0 \cdot r_d$ from BAO and CMB dataset and friends

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It has been theorized that Dynamical Dark Energy (DDE) could be a possible solution to the Hubble tension. To avoid the degeneracy between the Hubble parameter H_0 and the sound horizon scale r_d , we use their multiplication as one parameter $c/(H_0 r_d)$. To the BAO points we add the SNIa Pantheon dataset and GRB dataset and the points from the CMB priors. We use different DE parametrizations to constrain the cosmological parameters and we compare the results based on statistical measures. We compare the results with the ones obtained by marginalizing over the $H_0 \cdot r_d$ by redefining the likelihood in a BAO and SNIa datasets.

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