

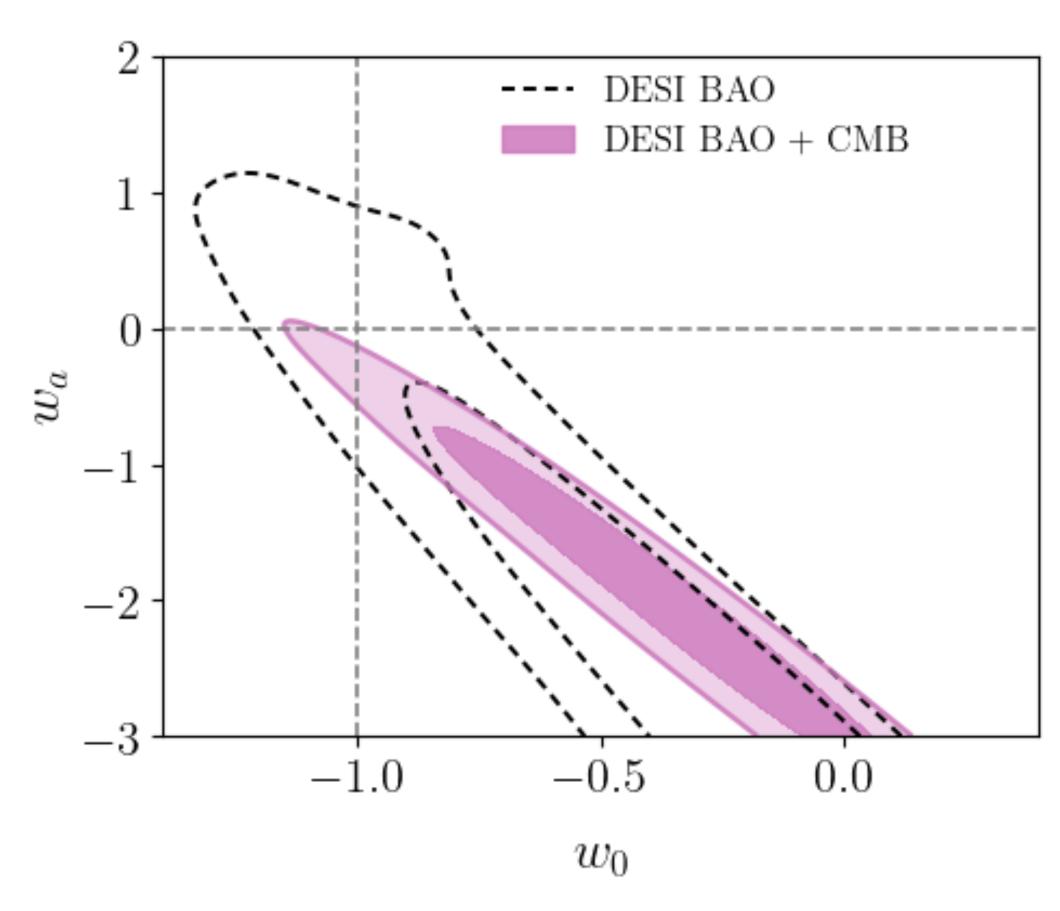


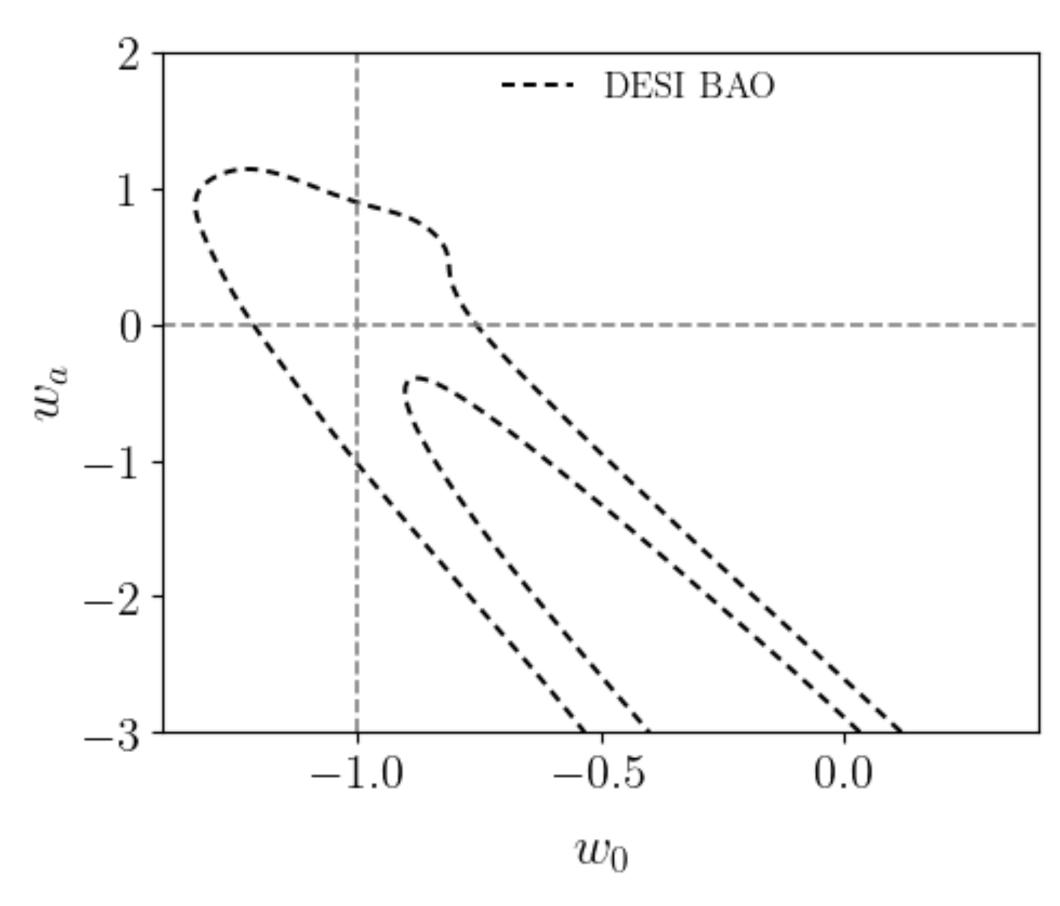
DARK ENERGY **SPECTROSCOPIC** INSTRUMENT

U.S. Department of Energy Office of Science

DESI VI. Cosmological constraints - Aug 2024 XII ICNFP @ Crete, Greece, 2024

Uendert Andrade (UMichigan)







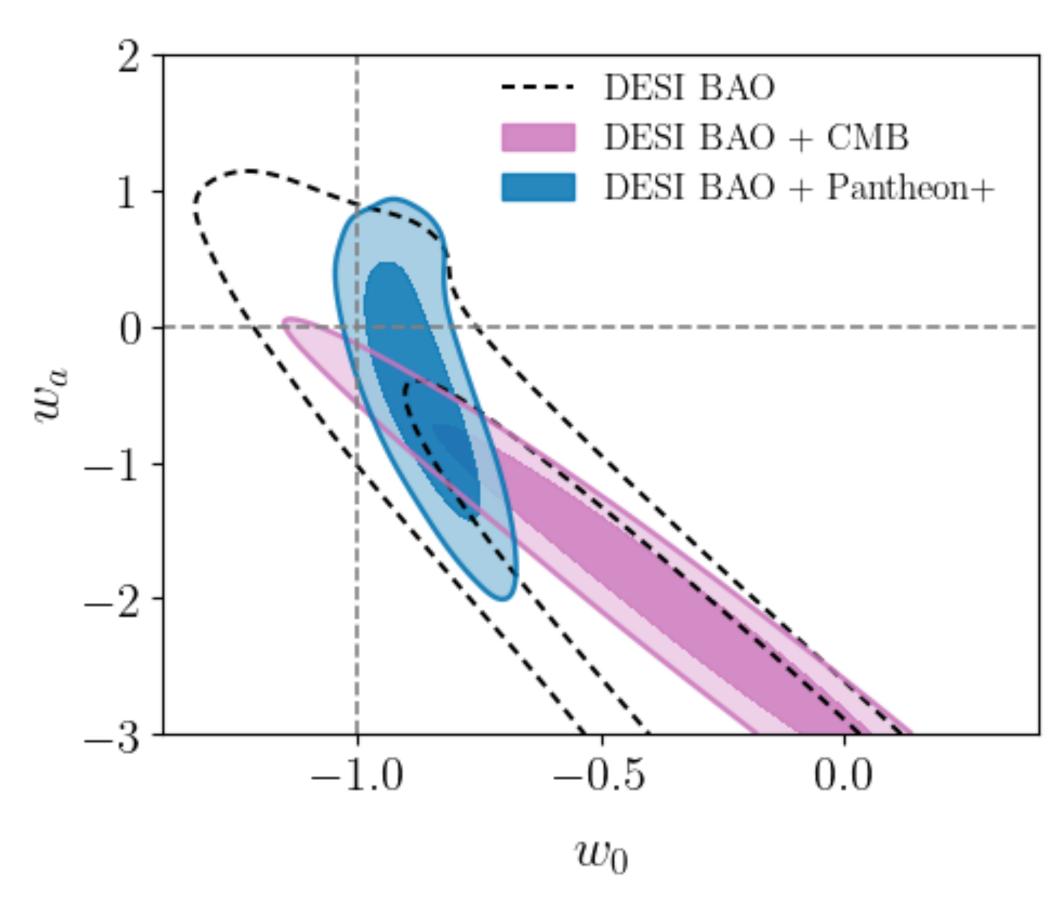


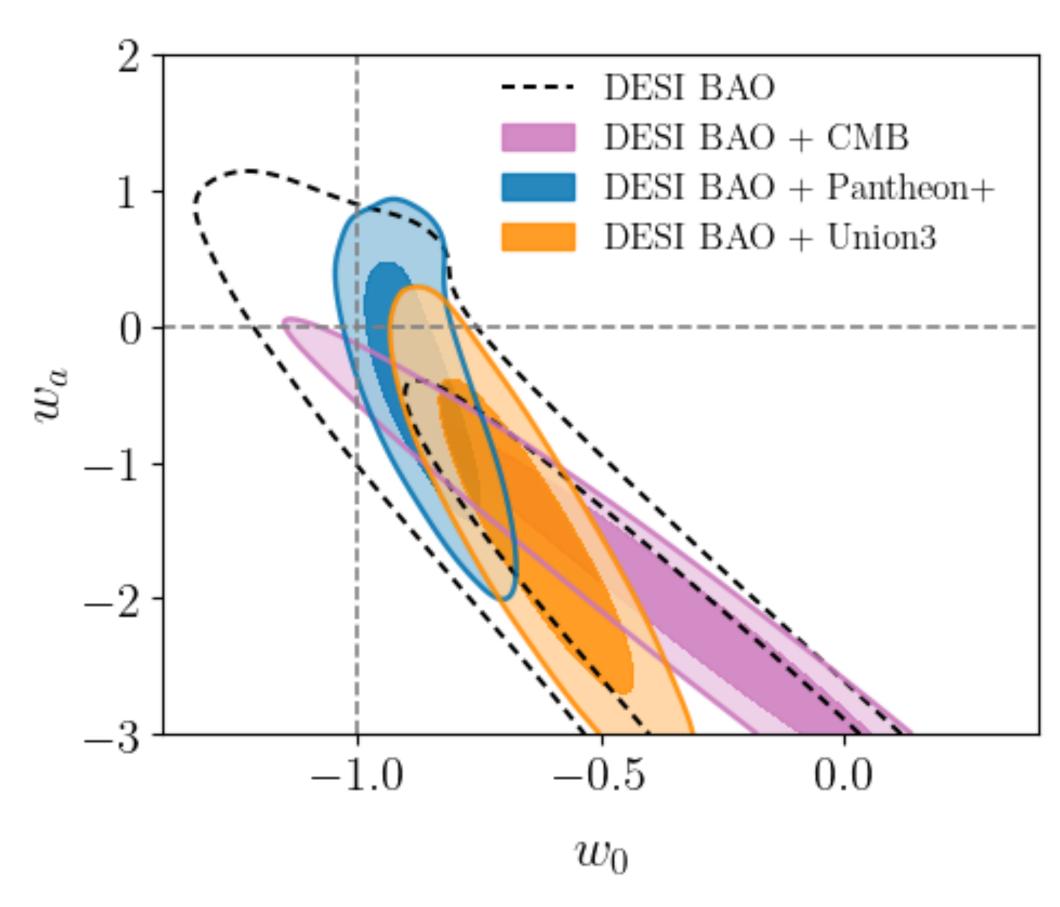


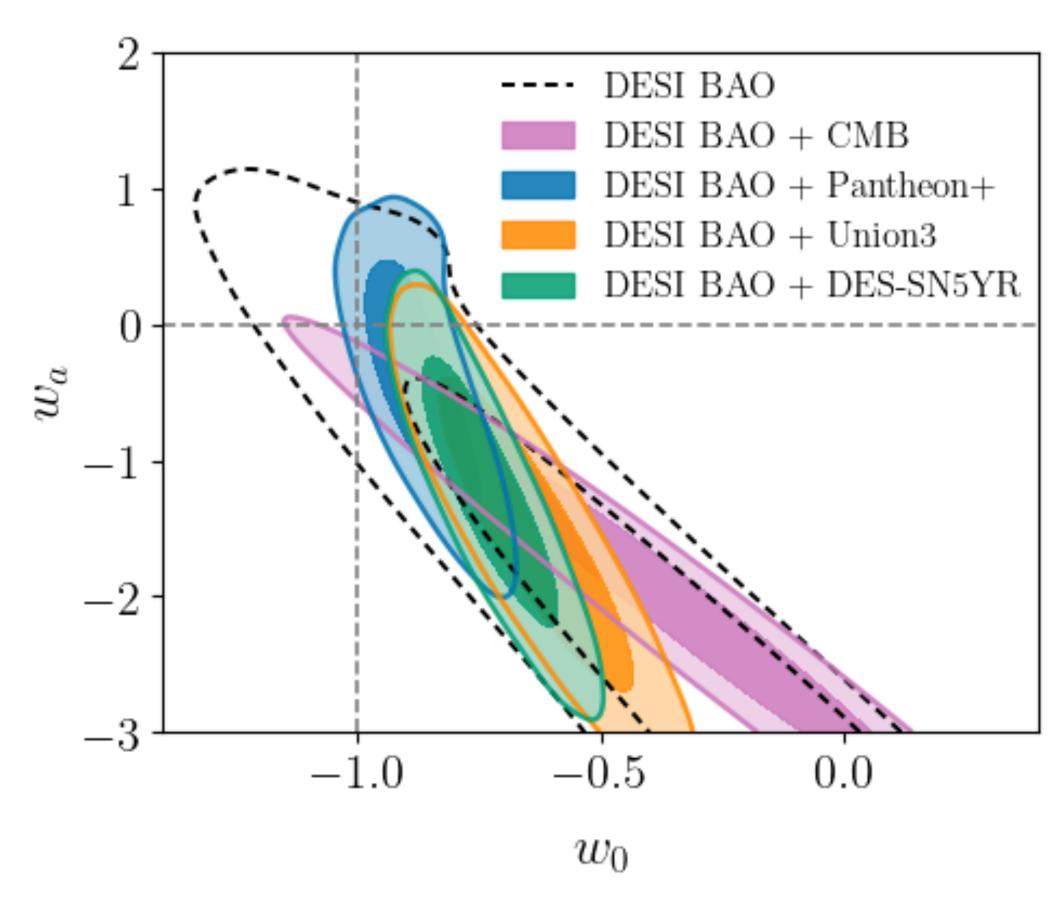
2.6σ DESI + CMB













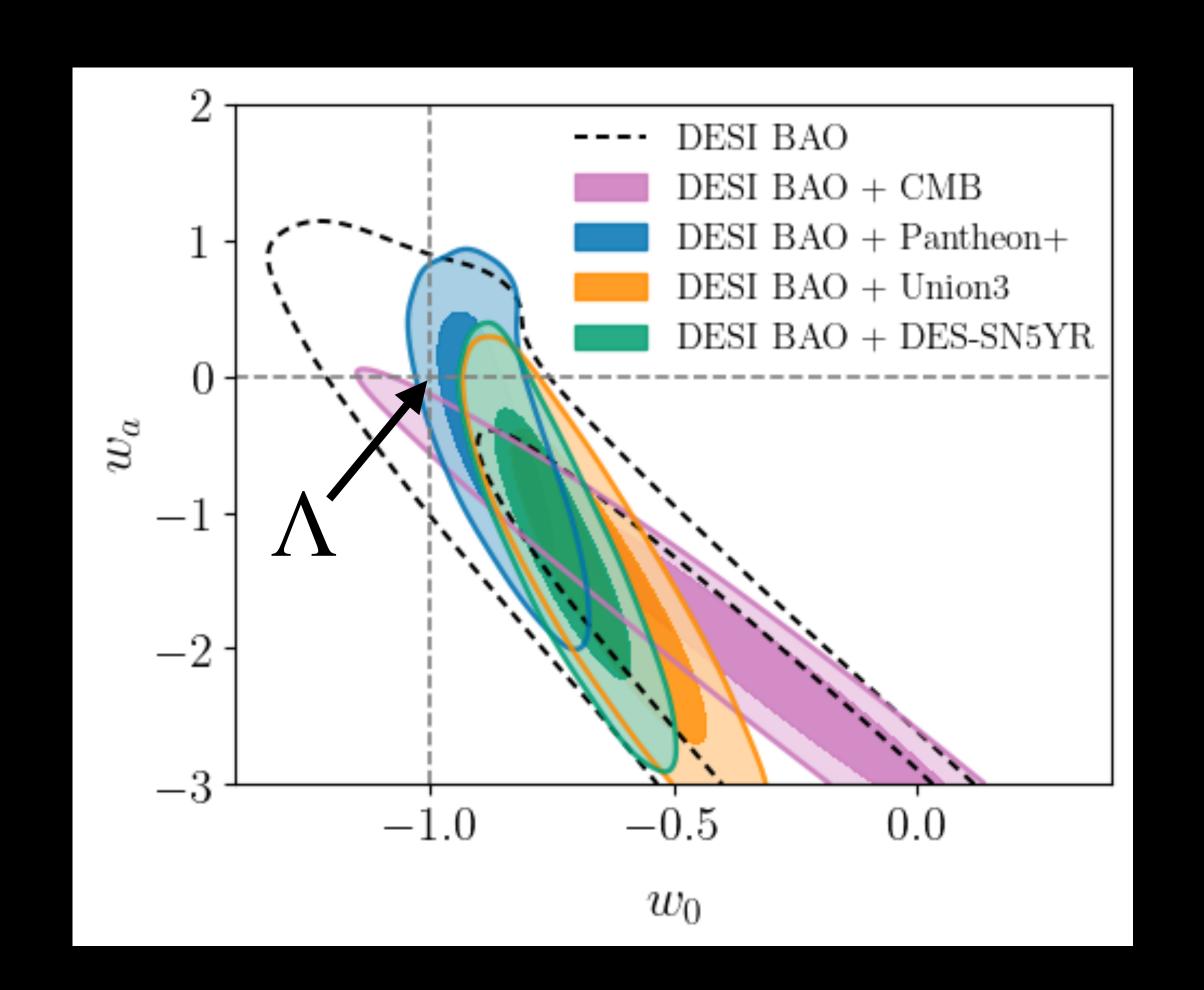
Dark Energy Equation of State

Varying EoS

$$w(a) = w_0 + (1 - a)w_a$$
 (CPL)

$$w_0 = -0.45^{+0.34}_{-0.21}, \qquad w_a = -1.79^{+0.48}_{-1.00}$$

 $DESI + CMB \implies 2.6a$





Dark Energy Equation of State

Combining all DESI + CMB + SN

$$w_0 = -0.827 \pm 0.063,$$
 $w_a = -0.75^{+0.29}_{-0.25}$

DESI + CMB + PantheonPlus $\Longrightarrow 2.5\sigma$

