

Parameter	Scenario	Observed	Expected
a_3/a_1	on-shell	$[-1.13, 0.80]$	$[-0.76, 0.76]$
	any Γ_H	$[-0.33, 0.24]$	$[-0.50, 0.50]$
	$\Gamma_H = \Gamma_H^{\text{SM}}$	$[-0.21, 0.18]$	$[-0.25, 0.25]$
a_2/a_1	on-shell	$[-0.12, 0.26]$	$[-0.24, 0.31]$
	any Γ_H	$[-0.098, 0.202]$	$[-0.21, 0.25]$
	$\Gamma_H = \Gamma_H^{\text{SM}}$	$[-0.089, 0.189]$	$[-0.17, 0.18]$
$(\Lambda_1 \sqrt{ a_1 }) \cos(\phi_{\Lambda 1})$ (GeV)	on-shell	$[-\infty, -130] \cup [160, \infty]$	$[-\infty, -180] \cup [210, \infty]$
	any Γ_H	$[-\infty, -160] \cup [180, \infty]$	$[-\infty, -250] \cup [240, \infty]$
	$\Gamma_H = \Gamma_H^{\text{SM}}$	$[-\infty, -250] \cup [170, \infty]$	$[-\infty, -260] \cup [250, \infty]$
$(\Lambda_1^{Z\gamma} \sqrt{ a_1 }) \cos(\phi_{\Lambda 1}^{Z\gamma})$ (GeV)	on-shell	$[-\infty, -170] \cup [100, \infty]$	$[-\infty, -200] \cup [130, \infty]$