

Abstract

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CADMI	χ^2	mean χ^2 per d.o.f.	CADMI	χ^2	mean χ^2 per d.o.f.
HEFNET1	1760		HEFNET1	1760	
Γ			Γ		
HEFNET1K	412		HEFNET1K	412	
best-fit Λ CDM Ω_m	$1.06^{+0.03}_{-0.02}$	best-fit Λ CDM Ω_m	best-fit Λ CDM Ω_m	$1.06^{+0.03}_{-0.02}$	best-fit Λ CDM Ω_m
w (best-fit)	$-0.84^{+0.04}_{-0.03}$	w (best-fit)	w (best-fit)	$-0.84^{+0.04}_{-0.03}$	w (best-fit)
best-fit Λ CDM Ω_m	$1.06^{+0.03}_{-0.02}$	best-fit Λ CDM Ω_m	best-fit Λ CDM Ω_m	$1.06^{+0.03}_{-0.02}$	best-fit Λ CDM Ω_m
w (best-fit)	$-0.84^{+0.04}_{-0.03}$	w (best-fit)	w (best-fit)	$-0.84^{+0.04}_{-0.03}$	w (best-fit)
1. Ω_m fixed, w free			1. Ω_m fixed, w free		
Ω_m	$0.31^{+0.01}_{-0.01}$	Ω_m	$0.31^{+0.01}_{-0.01}$	$0.31^{+0.01}_{-0.01}$	$0.31^{+0.01}_{-0.01}$
w (best-fit)	$-0.84^{+0.04}_{-0.03}$	w (best-fit)	w (best-fit)	$-0.84^{+0.04}_{-0.03}$	w (best-fit)
2. w fixed, Ω_m free			2. w fixed, Ω_m free		
Ω_m	$0.31^{+0.01}_{-0.01}$	Ω_m	$0.31^{+0.01}_{-0.01}$	$0.31^{+0.01}_{-0.01}$	$0.31^{+0.01}_{-0.01}$
w (best-fit)	$-0.84^{+0.04}_{-0.03}$	w (best-fit)	w (best-fit)	$-0.84^{+0.04}_{-0.03}$	w (best-fit)

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Figure 1 consists of five panels, labeled (a) through (e), each showing the evolution of the probability distribution $P(x)$ for different values of the parameter α . The panels are arranged horizontally. Each panel contains a plot of $P(x)$ versus x (ranging from 0 to 10) and a corresponding phase diagram in the (α, β) plane (ranging from 0 to 10). The distributions transition from a single peak to a bimodal distribution as α increases. The phase diagrams show regions of different topological states, with the transition occurring at $\alpha = 1$.

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