	First Name	Last Name	Institute	Status		
1	Mohammad	Ansari	Sharif University of technology	GraduStu		
	Title: Late time Sky as a probe of steps and Oscillations in Primordial Universe					
	Abstract: The standard model of cosmology with nearly Gaussian, isotropic, scale invariant and adiabatic initial con- ditions describe the cosmological observations. However, the					
		·	to the physics of early universe. In this work we study the effect of the oscilla	•		
	1 *	potential inflationary models in late time large scale structure observations. Mainly we study the matter power spectrum, number density of the structures, the halo bias an the bul				
	flow in these mod- els. We assert that inflationary models with step functions which deviates from the standard model in small scales I ≤ 1Mpc can be constrained by Large scale data as well. We also discuss the effectiveness of CMB lensing as a probe of deviation from standard model.					
2		· ·		Dh.DCt		
	Saeed	AnsariFard	Shahid Beheshti University lass in accordance with mass bias inferred from CMB primary	PhDStu		
			rass in accordance with mass bias interred from CMB primary K ray or SZ observations causes the deduced mass being different than real mass	This difference		
	• •		•			
	have been coded by bias parameter. Value determination of bias parameter have recently been faced with challenge. We reproduce the hydrostatic equilibrium relation by considering the full Einstein Equation as $G_{\mu\nu} + \Lambda g_{\mu\nu} = \kappa T_{\mu\nu}$ in a Cluster. this add some modification to Y-M scaling relation. We have applied this modification to bias parameter as a result it					
	became redshift dependent hence it could disappear the tension between CMB primary cosmological result and clus- ter number count.					
3	Mohammad	Arab	Bu-Ali Sina university	PhDStu		
		1	io With a Small Negative Running of The Spectral Index			
			er bounce scenario in which Lambda has an expansion of H (Hubble parameter) a	nd its derivative		
	· ·	-				
	we obtained a small negative value for running can be exist by considering an expansion of Lambda grater than H ² . By estimating a set of parameters in this model, we o spectral index, its Running and tensor to scalar ratio (r) that demonstrate the capability of satisfying current observations.					
4 Aghileh S Ebrahimi Ebrahimi University of Kashan in collaboration with Shahid Beheshti University						
	7,5		old Dynamical Dark Energy Models	PhDStu		
	Title. Clustering of Cold Dynamical Dark Energy Models					
	Abstract: The nature of dark energy can	be investigated not only by equation of sta	te but also through clustering and sound speed. In this research, we examine clu	istering of some		
	dynamical dark energy models namely, power-law (PL), Chavelier-Polarski-Linder (CPL) and Feng-Shen-Li (FSL). We will go beyond zero-order and Free parameter of models constra			ISICINIS OF SOME		
	dynamical dark energy models namely, po	ower-law (PL), Chavelier-Polarski-Linder (CP	L) and Feng-Shen-Li (FSL). We will go beyond zero-order and Free parameter of mo	•		
		, ,	L) and Feng-Shen-Li (FSL). We will go beyond zero-order and Free parameter of mo AO) and Supernovae type Ia (SNIa) observation and Hubble space telescope (HST)	dels constraints		
	by using current available data including I	Planck DR2, Baryonic Acoustic Oscillation (B		odels constraints . We investigate		
	by using current available data including I that PL as early dark energy has different	Planck DR2, Baryonic Acoustic Oscillation (B behavior rather than semi-LCDM models s	AO) and Supernovae type Ia (SNIa) observation and Hubble space telescope (HST)	odels constraints . We investigate DM equation of		
	by using current available data including I that PL as early dark energy has different state and matter behavior at early unive	Planck DR2, Baryonic Acoustic Oscillation (B behavior rather than semi-LCDM models s rse. We quantify the importance of uncou	AO) and Supernovae type Ia (SNIa) observation and Hubble space telescope (HST) uch as rapid potential changes, higher matter density contrast due to crossing LO pled dark energy clustering, PL exhibits strong clustering with $\delta_{PL} > 0~$ and sen	odels constraints . We investigate DM equation of ni-LCDM models		
	by using current available data including I that PL as early dark energy has different state and matter behavior at early unive produce void of dark energy with power.	Planck DR2, Baryonic Acoustic Oscillation (B behavior rather than semi-LCDM models s rse. We quantify the importance of uncounties amplitude around 10^{-12} . In the line	AO) and Supernovae type Ia (SNIa) observation and Hubble space telescope (HST) uch as rapid potential changes, higher matter density contrast due to crossing LC pled dark energy clustering, PL exhibits strong clustering with $\delta_{PL} > 0$ and sennear regime, density contrast, growth rate index f(σ_8) and gravitational pote	odels constraints . We investigate DM equation of ni-LCDM models ntial computed.		
	by using current available data including I that PL as early dark energy has different state and matter behavior at early unive produce void of dark energy with power Furthermore, temperature anisotropy and state of the state	Planck DR2, Baryonic Acoustic Oscillation (B behavior rather than semi-LCDM models s rse. We quantify the importance of uncounterless amplitude around 10^{-12} . In the lind matter power spectrum by modification	AO) and Supernovae type Ia (SNIa) observation and Hubble space telescope (HST) uch as rapid potential changes, higher matter density contrast due to crossing LC pled dark energy clustering, PL exhibits strong clustering with $\delta_{PL} > 0$ and sennear regime, density contrast, growth rate index $f(\sigma_8)$ and gravitational pote of CAMB for dynamical models obtained and ISW effect. PL shows more ISW effect.	odels constraints . We investigate DM equation of ni-LCDM models ntial computed.		
5	by using current available data including I that PL as early dark energy has different state and matter behavior at early unive produce void of dark energy with power Furthermore, temperature anisotropy and for matter power spectrum at large scale	Planck DR2, Baryonic Acoustic Oscillation (B behavior rather than semi-LCDM models s rse. We quantify the importance of uncou erless amplitude around 10 ⁻¹² . In the lind d matter power spectrum by modification around k=0.01.Tension between HST and 0	AO) and Supernovae type Ia (SNIa) observation and Hubble space telescope (HST) uch as rapid potential changes, higher matter density contrast due to crossing LC pled dark energy clustering, PL exhibits strong clustering with $\delta_{PL} > 0$ and sennear regime, density contrast, growth rate index $f(\sigma_8)$ and gravitational pote of CAMB for dynamical models obtained and ISW effect. PL shows more ISW effCMB for H ₀ disappears for all models.	odels constraints . We investigate .DM equation of ni-LCDM models ntial computed. fect, more value		
5	by using current available data including I that PL as early dark energy has different state and matter behavior at early unive produce void of dark energy with power Furthermore, temperature anisotropy and state of the state	Planck DR2, Baryonic Acoustic Oscillation (B behavior rather than semi-LCDM models s rse. We quantify the importance of uncou erless amplitude around 10 ⁻¹² . In the lind d matter power spectrum by modification around k=0.01.Tension between HST and (AO) and Supernovae type Ia (SNIa) observation and Hubble space telescope (HST) uch as rapid potential changes, higher matter density contrast due to crossing LC pled dark energy clustering, PL exhibits strong clustering with $\delta_{PL} > 0$ and sen near regime, density contrast, growth rate index $f(\sigma_8)$ and gravitational pote of CAMB for dynamical models obtained and ISW effect. PL shows more ISW effort H0 disappears for all models. Bu-Ali Sina University	odels constraints . We investigate DM equation of ni-LCDM models ntial computed.		
5	by using current available data including I that PL as early dark energy has different state and matter behavior at early unive produce void of dark energy with power Furthermore, temperature anisotropy and for matter power spectrum at large scale Neda	Planck DR2, Baryonic Acoustic Oscillation (B behavior rather than semi-LCDM models s rse. We quantify the importance of uncou erless amplitude around 10 ⁻¹² . In the lind d matter power spectrum by modification around k=0.01.Tension between HST and 0 Heidari Title: Spherical collapse model and	AO) and Supernovae type Ia (SNIa) observation and Hubble space telescope (HST) uch as rapid potential changes, higher matter density contrast due to crossing LC pled dark energy clustering, PL exhibits strong clustering with $\delta_{PL} > 0$ and sente the energy clustering, PL exhibits strong clustering with $\delta_{PL} > 0$ and sente the energy clustering, PL exhibits strong clustering with $\delta_{PL} > 0$ and sente the energy clustering, PL exhibits strong clustering with $\delta_{PL} > 0$ and sente the energy clustering with $\delta_{PL} > 0$ and sente the	odels constraints . We investigate .DM equation of ni-LCDM models ntial computed. fect, more value GraduStu		
5	by using current available data including I that PL as early dark energy has different state and matter behavior at early unive produce void of dark energy with power Furthermore, temperature anisotropy and for matter power spectrum at large scale Neda Abstract: We study the spherical collapse	Planck DR2, Baryonic Acoustic Oscillation (B behavior rather than semi-LCDM models s rse. We quantify the importance of uncou erless amplitude around 10 ⁻¹² . In the lind d matter power spectrum by modification around k=0.01.Tension between HST and 0 Heidari Title: Spherical collapse model and a model in the framework of spatially flat p	AO) and Supernovae type Ia (SNIa) observation and Hubble space telescope (HST) uch as rapid potential changes, higher matter density contrast due to crossing LC pled dark energy clustering, PL exhibits strong clustering with $\delta_{PL} > 0$ and senter regime, density contrast, growth rate index $f(\sigma_8)$ and gravitational pote of CAMB for dynamical models obtained and ISW effect. PL shows more ISW effects for H0 disappears for all models. Bu-Ali Sina University cluster number counts in power-law $f(T)$ gravity power law $f(T) = \alpha - T$ $f(T)$ gravity model. We find that the linear and non-linear gro	odels constraints . We investigate . DM equation of ni-LCDM models ntial computed. fect, more value GraduStu wth of spherical		
5	by using current available data including I that PL as early dark energy has different state and matter behavior at early unive produce void of dark energy with power furthermore, temperature anisotropy and for matter power spectrum at large scale Neda Abstract: We study the spherical collapse overdensities of this particularf (T) mode	Planck DR2, Baryonic Acoustic Oscillation (B behavior rather than semi-LCDM models stree. We quantify the importance of uncounterless amplitude around 10 ⁻¹² . In the line d matter power spectrum by modification around k=0.01. Tension between HST and the interless amplitude around between HST and the interless around the interless of spatially flat pel are affected by the power-law parameter.	AO) and Supernovae type Ia (SNIa) observation and Hubble space telescope (HST) uch as rapid potential changes, higher matter density contrast due to crossing LC pled dark energy clustering, PL exhibits strong clustering with $\delta_{PL} > 0$ and senter regime, density contrast, growth rate index f(σ_{8}) and gravitational pote of CAMB for dynamical models obtained and ISW effect. PL shows more ISW effectMB for H _O disappears for all models. Bu-Ali Sina University cluster number counts in power-law f(T) gravity bower law $f T = \alpha - T b$ gravity model. We find that the linear and non-linear grores. Finally, we compute the predicted number counts of virialized haloes in ord	odels constraints . We investigate .DM equation of ni-LCDM models ntial computed. fect, more value GraduStu wth of spherical er to distinguish		
5	by using current available data including I that PL as early dark energy has different state and matter behavior at early unive produce void of dark energy with power furthermore, temperature anisotropy and for matter power spectrum at large scale Neda Abstract: We study the spherical collapse overdensities of this particularf (T) model the current f (T) model from the expect	Planck DR2, Baryonic Acoustic Oscillation (B behavior rather than semi-LCDM models stree. We quantify the importance of uncounterless amplitude around 10 ⁻¹² . In the lind matter power spectrum by modification around k=0.01. Tension between HST and (B Heidari Title: Spherical collapse model and the model in the framework of spatially flat pel are affected by the power-law parameter stations of the concordance A cosmology. Since the seminary control of the concordance of the concorda	AO) and Supernovae type Ia (SNIa) observation and Hubble space telescope (HST) uch as rapid potential changes, higher matter density contrast due to crossing LC pled dark energy clustering, PL exhibits strong clustering with $\delta_{PL} > 0$ and senter regime, density contrast, growth rate index $f(\sigma_8)$ and gravitational pote of CAMB for dynamical models obtained and ISW effect. PL shows more ISW effects for H0 disappears for all models. Bu-Ali Sina University cluster number counts in power-law $f(T)$ gravity power law $f(T) = \alpha - T$ $f(T)$ gravity model. We find that the linear and non-linear gro	odels constraints . We investigate . DM equation of ni-LCDM models ntial computed. fect, more value GraduStu wth of spherical er to distinguish		
5	by using current available data including I that PL as early dark energy has different state and matter behavior at early unive produce void of dark energy with power furthermore, temperature anisotropy and for matter power spectrum at large scale Neda Abstract: We study the spherical collapse overdensities of this particularf (T) mode	Planck DR2, Baryonic Acoustic Oscillation (B behavior rather than semi-LCDM models stree. We quantify the importance of uncounterless amplitude around 10 ⁻¹² . In the lind matter power spectrum by modification around k=0.01. Tension between HST and (B Heidari Title: Spherical collapse model and the model in the framework of spatially flat pel are affected by the power-law parameter stations of the concordance A cosmology. Since the seminary control of the concordance of the concorda	AO) and Supernovae type Ia (SNIa) observation and Hubble space telescope (HST) uch as rapid potential changes, higher matter density contrast due to crossing LC pled dark energy clustering, PL exhibits strong clustering with $\delta_{PL} > 0$ and senter regime, density contrast, growth rate index f(σ_{8}) and gravitational pote of CAMB for dynamical models obtained and ISW effect. PL shows more ISW effectMB for H _O disappears for all models. Bu-Ali Sina University cluster number counts in power-law f(T) gravity bower law $f T = \alpha - T b$ gravity model. We find that the linear and non-linear grores. Finally, we compute the predicted number counts of virialized haloes in ord	odels constraints . We investigate . DM equation of ni-LCDM models ntial computed. fect, more value GraduStu wth of spherical er to distinguish		

	First Name	Last Name	Institute	Status	
6	Matin	Honardoost	Shahid Beheshti University	PhDStu	
	Title: Symmetron with a non-minimal kinetic term				
	Abstract: We investigate the compatibility of	of Symmotrons with dark anargy by intra	ducing a non-minimal kinetic term acceptated with the Symmetren. In this new m	andal the offect	
			ducing a non-minimal kinetic term associated with the Symmetron. In this new momes more pronounced due to the non-minimal kinetic term appearing in the ac		
		•	ornes more pronounced due to the non-minimal kinetic term appearing in the ac-	-	
	time H_0.	, the universe experiences an acceleration	ig priase which, in spite of the large effective mass of the scalar field, lasts as lon	g as the nubble	
	tille H_0.				
7	Seyyed Masoud	Hoseyni	Khayyam University	PhDStu	
	Khayyam University, Department of Astroph	nysics and Cosmology, Seyyed Masoud Ho	oseyni, Olya Layeghi, Dr Sepehr Arbabi Bidgoli		
	The Cosmic Microwave Background (CMB) (Cold Spot located in southern celestial he	emisphere, seen in microwave from WMAP and Plank satellite. Analyzing data sho	ow this region is	
	large and approximately 70µk colder than th	e average CMB temperature. Typically, C	MB distribution of temperature fluctuations are completely Gaussian and the larg	gest fluctuations	
	of the primordial CMB temperature occur of	on angular scale of about 1°. Thus a cold	region as large as the Cold Spot appears very unlikely, given accepted theoretic	al methods. So,	
	-	-	aly, we study the cosmological imprints of pre-inflationary particles (PIPs). In sc	-	
	, , , , , , , , , , , , , , , , , , , ,		t (SSCD). We show that the main effect lies in the low-I modes. We also calculate	_	
	, , ,		SW competition, could help in identifying the SSCD's imprints in the CMB. Next		
	<u>-</u>	·	e Cold Spot. According to Planck results, we plot the diagram of φ – r (Gravitation	•	
	, ,	AP results. In Planck 2015 results. XVI Isot	cropy and statistics of the Planck, the existence of cold spot is confirmed and need	ls to study more	
_	by satellites with higher resolution.			_	
8	Elahe	Karimkhani	Bu-Ali sina Hamedan	PhDStu	
			TBA		
9	Shirin	Khodabakhshi	University of Tehran	PhDStu	
	Simin		nd Casimir in the Cosmological Inhomogenities	Tilbata	
	Abstract: Computing the Casimir force betw		erse for a scalar field at finite temperature shows when the plates' separation is c	omparable with	
		·	then approaches zero. Since it has been shown previously that the universe many	•	
	Gödel phase for a small period of time, the induced inhomogeneities from the Casimir force are investigated.				
10	Olya	Layeghi	Khayyam University	PhDStu	
	Khayyam University, Department of Astrophysics	÷,	, , , , , , , , , , , , , , , , , , , ,		
1		·	here, seen in microwave from WMAP and Plank satellite. Analyzing data show this re		
			of temperature fluctuations are completely Gaussian and the largest fluctuations of the		
			pears very unlikely, given accepted theoretical methods. So, that may be a signal of non-Ga		
	fluctuations. To explain this anomaly, we study the cosmological imprints of pre-inflationary particles (PIPs). In some inflationary models, pre-inflationary particles can generate Spherically Symmetric				
	Cosmic Defect (SSCD). We show that the main effect lies in the low-I modes. We also calculate the CMB signal to noise ratio (S/N) as a function of the location of the SSCD and find that the SW-ISW competition, could help in identifying the SSCD's imprints in the CMB. Next we show that a SSCD located at a particular distance from us provides a possible explanation to the Cold Spot. According to				
	· · ·		The state of the s		
	competition, could help in identifying the SSCD's	imprints in the CMB. Next we show that a S	The state of the s	pot. According to	
	competition, could help in identifying the SSCD's	imprints in the CMB. Next we show that a S itational potential – distance) which is very cl	SCD located at a particular distance from us provides a possible explanation to the Cold S	pot. According to	

	First Name	Last Name	Institute	Status	
11	Tayebeh	Mirzaei Rezaei	Islamic Azad University, Ayatollah Amoli Branch	PhDStu	
	Ti		y gravity with generalized Chaplaygn gas (GCG) model		
		•	Tayebeh 1; Alireza, Amani1		
		• • •	Branch, Islamic Azad University, Amol, Mazandaran, Iran		
	1	· .	and generalized Chaplaygn gas (GCG). The continuity equations have been separ		
	_ = - =		uations, we find the energy density, pressure and EoS parameter of dark energy		
12	1 10 0 1		ts in terms of redshift, and sound speed parameter shows us a stability in late un		
12	Zahra	Molavi	Bu-Ali Sina University	PhDStu	
	Abstract: Wo've studied the consistency of		MGB(Modified Gauss Bonnet) Dark energy the observations. Data analyzing methods Abstract: are used to study the expan	cion history and	
		•	t observational data sets for SNIa,(BAO) , Hubble parameter, Planck and WMAP d		
	_ ·	<u>.</u>	n different joint analysis of these data sets .Our results show a good compatibilit		
	model and observations.	We obtained the best he parameter in	rumerent joint analysis of these data sets roat results show a good compatibility	, seeween mes	
13	Behrang	Mostaghel	Shahid Beheshty University	PhDStu	
	3		al to reduce the tension between Planck and LSS		
	Abstract: We investigate the tension between	<u> </u>	n (RSD) data. RSD datasets indicate that the intensity of gravitation is less than	that of inferred	
	from Planck data. In this paper, we will stud	y the fluctuations of matter in the viscou	s dark energy framework. Our results demonstrate that at the first order perturba	tion, this model	
	can reduce the tension in \$f\sigma_8\$.				
14	Zahra	Davari	Bu-Ali Sina University		
		، تاریک ایجگرافیک	رشد اختلالات در کیهانشناسی انرژی		
		مهرابی، احمد ؛	داوری ، زهرا؛ ملک جانی محمد ؛		
	گروه فیزیک، دانشگاه بوعلی سینا ، همدان				
	چکیده: در این مقاله در ابتدا بررسی جامعی از مدل انرژی تاریک ایجگرافیک در سطح زمینه و اختلالات ارائه داده میشود و سپس رشد اختلالات ماده را در مدلهای انرژی تاریک ایجگرافیک همگن و خوشهبندی شده مورد بررسی قرار				
	می گیرد و با انجام تحلیل درست نمایی با کمک مجموعه کاملی از دادههای هندسی و نرخ رشد با و روش MCMC پارامترهای کیهانی در این مدلها تعیین میشود. در نهایت محدوده اعتبار مدلهای انرژی تاریک ایجگرافیک در سطح				
	اختلالات مورد ارزیابی قرار می گیرد.				
15	Fateme	Rahim Monfared	Sharif University of Technology	GraduStu	
			, , ,	Gradusta	
	Title: The cross-correlation of Rees-Sciama and Ostriker-Vishniac effects, as a prediction of LCDM model for large scale structures Abstract: Secondary Anisotropies carry precious information about the intervening structures. As observations get more and more precise, it becomes more meaningful to investigate				
	1	=		_	
	the higher order effects (in sense of large s	scale structure perturbation theory) of st	tructures on CMB temperature anisotropy map. Here we consider two different	effects, both of	
	the higher order effects (in sense of large s which contribute to CMB anisotropies in se	scale structure perturbation theory) of st cond order. They are the Rees-Sciama (I	tructures on CMB temperature anisotropy map. Here we consider two different R-S) effect and the Ostriker-Vishniac (O-V) effect. O-V effect shares the multiplic	effects, both of ation of density	
	the higher order effects (in sense of large s which contribute to CMB anisotropies in se contrast by peculiar velocity with R-S effe	scale structure perturbation theory) of st econd order. They are the Rees-Sciama (I ect as a variable but through a totally	tructures on CMB temperature anisotropy map. Here we consider two different R-S) effect and the Ostriker-Vishniac (O-V) effect. O-V effect shares the multiplic different physics. the fact that both effects happen roughly in the same spar	effects, both of ation of density its scale in the	
	the higher order effects (in sense of large s which contribute to CMB anisotropies in se contrast by peculiar velocity with R-S effe	scale structure perturbation theory) of standard order. They are the Rees-Sciama (I ect as a variable but through a totally the validity of this calculation. Here we	tructures on CMB temperature anisotropy map. Here we consider two different R-S) effect and the Ostriker-Vishniac (O-V) effect. O-V effect shares the multiplic different physics. the fact that both effects happen roughly in the same spatialculate the prediction of LCDM model for the cross-correlation of R-S and O-V	effects, both of ation of density its scale in the	

	First Name	Last Name	Institute	Status	
16	Mehraneh	Tirandari	University of Kurdistan	PhDStu	
		Title: Hamilton-Jacobi for	malism to warm anisotropic inflation		
	Abstract: Warm inflation in the framework of locally rotationally symmetric Bianchi type I universe model using the Hamilton-Jacobi formalism is being considered. The model is investigated in strong dissipative regime in the presence and absence of viscosity. The situation is studied in detail for different typical examples for each case. It is shown that the model could stand in acceptable range of observational data. However, it is proved that warm viscous anisotropic inflation with constant dissipative regime could not present a proper explanation of inflation and there is a clear conflict with data. In the case where dissipation and bulk viscous pressure coefficients are considered to be variable, the perturbation parameters is compatible with Planck data.				
17	Aref	Yazdani	University of Mazandaran	Researcher	
	Title: Stable Micro Black Hole Production in a Fusion Nuclear Explosion by Modeling from the LHC				
18	Ebrahim	Yusofi	Islamic Azad University	Faculty	
		ه و کیهان شناسی تورمی	عنوان پوستر: مدهای اولیه ی غیر –دسیت		
	Title: Non-deSitter Initial Modes and Inflationary Cosmology چکیده: داده های اخیر کاوشگر پلانک، فضا-زمانی تقریبا دسیته، طیف توانی تقریبا مقیاس ناوردا با توزیع غیرگوسینی نزدیک به صفر را نشان می دهد. در این کار تحقیقاتی با استفاده از بسط مجانبی تابع هنکل در زمان های بسیار اولیه، مدهای غیر دسیته وانیم به نتایج تعمیم یافته ای برای خلق ذرات، تصحیحات فراپلانکی و تورم با جفت شدگی غیر کمینه دست یابیم که این تعمیم ها در حد فضای مد بانچ-دیویس به جواب های مرسوم قبلی منتهی می شوند. همچنین با استفاده از داده های پلانک ۲۰۱۵ قیدهای لازم روی این مدهای مجانبی را مشخص می کنیم.				