

Workshop on Cosmic Acceleration

Friday, August 24, 2012 – Sunday, August 26, 2012

(Giant Eagle Auditorium, Baker Hall A51, Carnegie Mellon University)

Friday, August 24, 2012

<i>Time</i>	<i>Speaker</i>	<i>Title</i>	<i>Session chair</i>
08:45 - 09:00	<i>Welcome (Gregg Franklin)</i>		
09:00 – 09:40	Gregory Gabadadze	Massive gravity and quasi-dilaton: Theory and cosmology	Mark Trodden
09:40 – 10:20	Claudia de Rham	Partially massless gravity	
10:20 – 10:40	Andrew Tolley	Helicity zero mode in cosmological solutions in massive gravity and bigravity	
10:40 – 11:00	<i>Coffee break</i>		
11:00 – 11:40	Rachel Bean	Discerning dark energy's character	Mark Trodden
11:40 – 12:20	Rachel Mandelbaum	Observational constraints on dark energy vs. modified gravity	
12:20 – 14:00	<i>Lunch break</i>		
14:00 – 14:20	Rachel Rosen	Recent developments in massive gravity	Justin Khoury
14:20 – 14:40	Matteo Fasiello	The interplay of stability requirements and observations in massive gravity	
14:40 – 15:00	Lavinia Heisenberg	Massive cosmologies	
15:00 – 15:20	Garrett Goon	Galileons as Wess-Zumino terms	
15:20 – 15:40	Godfrey Miller	Spatially covariant theories of a transverse, traceless graviton	
15:40 – 16:00	<i>Coffee break</i>		
16:00 – 16:20	Ezra Newman	Comments on Penrose's conformal cyclic cosmology	Tina Kahniashvili
16:20 – 16:40	Yi-Zen Chu	The problem of motion in the presence of Vainshtein screening	
16:40 – 17:00	David Jacobs	Regional effects in extra dimensions	
17:00 – 17:20	George Zahariade	A new way to count degrees of freedom in dRGT theory	
17:20 – 17:40	Jolyon Bloomfield	Matter interactions in effective field theories of dark energy	
18:30 – 21:00	<i>Dinner reception at Carnegie museum</i>		

Saturday, August 25, 2012

<i>Time</i>	<i>Speaker</i>	<i>Title</i>	<i>Session chair</i>
09:00 – 09:40	Alberto Nicolis	Solid inflation	Richard Holman
09:40 – 10:20	Mark Wyman	Inflation from magnetic drift	
10:20 – 10:40	Justin Khoury	The Ward identities of single field inflation	
10:40 – 11:00	<i>Coffee break</i>		
11:00 – 11:40	Sarah Shandera	Learning about inflation from Large Scale Structure	Richard Holman
11:40 – 12:20	Will Kinney	Inflation on the eve of Planck	
12:20 – 14:00	<i>Lunch break</i>		
14:00 – 14:20	Nishant Agarwal	Non-Gaussianity from general inflationary states	Sarah Shandera
14:20 – 14:40	Azadeh Moradinezhad Dizgah	General conditions for scale-invariant perturbations in an expanding universe	
14:40 – 15:00	Adrienne Erickcek	The power of small scales to probe inflation	
15:00 – 15:20	Elliot Nelson	Scale dependence of non-Gaussian statistics	
15:20 – 15:40	Suddhasattwa Brahma	Semi-classical effective equations for isotropic cosmology	
15:40 – 16:00	<i>Coffee break</i>		
16:00 – 16:20	Michael Wood-Vasey	The coming decade of supernova cosmology	Rachel Bean
16:20 – 16:40	Christopher Hirata	The WFIRST weak lensing program	
16:40 – 17:00	Christian Reichardt	Unraveling dark energy and inflation with the South Pole Telescope	
17:00 – 17:20	Xiaoying Xu	Measuring $D_{\{A\}}$ and H at $z = 0.35$ from the SDSS DR7 LRGs using baryon acoustic oscillations	
18:00 – 19:30	<i>Poster session* (with light refreshments)</i>		

* Poster session

- Joyce Byun – Primordial non-Gaussian shape recognition
- Sayantan Choudhury – Fourth level MSSM inflation from new flat directions
- Andrew Matas – Galileon radiation from binary pulsars
- Eva-Maria Mueller – Cosmological constraints on the effective field theory and cosmic acceleration
- Charles Shapiro – Weak lensing of Type Ia supernovae from SDSS-III

Sunday, August 26, 2012

<i>Time</i>	<i>Speaker</i>	<i>Title</i>	<i>Session chair</i>
09:00 – 09:40	Kazuya Koyama	Structure formation in modified gravity models	Andrew Tolley
09:40 – 10:20	Henry Tye	A possible stringy mechanism for a small cosmological constant	
10:20 – 10:40	Sohyun Park	Testing a nonlocally modified gravity model	
10:40 – 11:00	<i>Coffee break</i>		
11:00 – 11:40	Dragan Huterer	Falsifying paradigms for cosmic acceleration in the systematics-dominated era	Michael Wood-Vasey
11:40 – 12:00	Hao-Yi Wu	Impact of small-scale galaxy clustering systematics on cosmological parameter constraints	
12:00 – 12:20	Adam Mantz	Acceleration and modified gravity constraints from X-ray galaxy clusters	
12:20	<i>Concluding remarks</i>		