

# Swiss Cosmology Day 2015

## Program

February 5	Speaker	Title
9:45-10:15		COFFEE BREAK
10:15-10:30		INTRO
<b>Lensing</b>		
10:30-10:50	Kacprzak, Tomasz ETHZ	Weak lensing in the Dark Energy Survey
10:50-11:10	Rexroth, Markus EPFL	Measuring weak lensing flexion
11:10-11:30	Shan, HuanYuan EPFL	Weak lensing measurement on CFHT/Stripe82 Survey
11:30-11:50	Paraficz, Danuta EPFL	A PCA-based search for galaxy-scale strong lenses
11:50-12:10	Birrer, Simon ETHZ	Strong lens modelling and the properties of Dark Matter
12:10-12:30	Coupon, Jean UNIGE	Cluster lensing profiles from redshift enhancement behind galaxy clusters
12:30-12:50	Küing, Rafael UNIZH	Modelling gravitational lenses in Space Warps
12:50 -14:20		LUNCH
<b>Dark matter and more</b>		
14:20-14:40	Eckert, Dominique UNIGE	Cosmology with the XMM-XXL survey
14:40-15:00	Mathias Garny CERN	Interplay of indirect, direct and collider searches for WIMP dark matter
<b>DE &amp; MG</b>		
15:00-15:20	Nesseris, Savvas UNIGE	Reconstruction of a null test for matter density perturbations
15:20-15:40	Sawicki, Ignacy UNIGE	Towards a minimal description for modified gravity
15:40-16:10		COFFEE BREAK
16:10-16:30	Guarato, Pietro UNIGE	Perturbations for massive gravity theories
16:30-16:50	Motta, Mariele UNIGE	Instabilities in bimetric gravity
16:50-17:10	Cusin, Giulia UNIGE	Bi-metric cosmology: is there an instability in the tensor perturbation sector?
17:10-17:30	Dirian, Yves UNIGE	Observational constraints and parameter extraction in nonlocally modified General Relativity
19:00		DINNER

February 6	Speaker	Title
<b>LSS</b>		
9:20-9:40	Bonvin, Camille CERN	Three-point phase correlations: a new measure of non-linear large-scale structure
9:40-10:00	Blas, Diego CERN	Variations on non-linear corrections in the large scale structure
10:00-10:20	Biagetti, Matteo UNIGE	Scale-dependent bias from an inflationary bispectrum: the effect of a stochastic moving barrier
10:20-10:50		COFFEE BREAK
10:50-11:10	Marozzi, Giovanni UNIGE	Galaxy number counts to second order via geodesic light-cone coordinates
11:10-11:30	Montanari, Francesco UNIGE	Galaxy number counts to second order: bispectrum
11:30-11:50	Norena, Jorge UNIGE	The squeezed limit of the LSS bispectrum
11:50-12:10	Stadel, Joachim UNIZH	Euclid Precision Cosmology Simulations with the PKDGRAV3 Code
<b>+Baryons</b>		
12:10-12:30	Mohammed, Irshad UNIZH	An analytic model of the matter power spectrum, its covariance matrix, and baryonic effects
12:30-14:00		LUNCH
14:00-14:20	Atek, Hakim EPFL	Did galaxies reionize the Universe? New constraints from the strong lensing of the Hubble Frontier Fields
14:20-14:40	Mayer, Lucio UNIZH	Baryonic physics in galaxy formation modifies the nature of cold dark matter halos
<b>Inflation</b>		
14:40-15:00	Orani, Stefano UNIBAS	Wall-crossing at the end of hilltop inflation
15:00-15:20	Cefala, Francesco UNIBAS	False vacuum energy dominated inflation with large $r$ and the importance of $\kappa_s$
15:20-15:40	Rubio, Javier EPFL	Living beyond the edge: Higgs inflation and vacuum metastability
15:40-16:10	Nolde, David UNIBAS	Implications of large tensor modes for small-field models of slow-roll inflation
16:00-16:30		Discussion/ Conclusion
16:30-17:00		COFFEE BREAK