

NEB-17 PROGRAMME

Sunday	18/09/16	Tuesday	20/9/2016	Wednesday	21/9/2016	Thursday	22/9/2016
18:00-20:00	PRE-REGISTRATION						
Monday	19/9/2016						
08:15-09:00	REGISTRATION						
09:00-09:15	Welcome						
09:15-10:00	R. Wald	09:00-09:45		09:00-09:45	R. Loll	09:00-09:45	W. Unruh
10:00-10:45	A. Ashtekar	09:45-10:30	Excursion	09:45-10:30	F. Barbero	09:45-10:30	M. Dafermos
10:45-11:15	Coffee Break	10:30-11:00		10:30-11:00	Coffee Break	10:30-11:00	Coffee Break
11:15-12:00	P. Laguna	11:00-11:45		11:00-11:45	Parallel A,B,C	11:00-11:45	S. Capozziello
12:00-12:45	D. Shoemaker	11:45-12:30		11:45-12:30	Parallel A,B,C	11:45-12:30	R. Brandenberger
	Lunch		Lunch		Lunch		Lunch
PARALLEL SESSIONS A,B,C							
16:00-16:30	Invited	16:00-16:30		16:00-16:30	Invited	16:00-16:30	Invited
16:30-16:50	Contributed	16:30-16:50		16:30-16:50	Contributed	16:30-16:50	Contributed
16:50-17:10	Contributed			16:50-17:10	Contributed	16:50-17:10	Contributed
17:10-17:40	Coffee Break	16:30-17:00	Coffee Break	17:10-17:40	Coffee Break	17:10-17:40	Coffee Break
17:40-18:00	Contributed	17:00-17:45	K. Kokkotas	17:40-18:00	Contributed	17:40-18:00	Contributed
18:00-18:20	Contributed	17:45-18:30	D. Psaltis	18:00-18:20	Contributed	18:00-18:20	Contributed
18:20-18:40	Contributed	18:30-19:15	L. Lehner	18:20-18:40	Contributed	18:20-18:40	Contributed
18:40-19:00	Contributed			18:40-19:00	Contributed	18:40-19:00	Contributed
		19:15-20:00	Poster Session				
		20:00	DINNER	20:00	GENERAL ASSEMBLY OF HSRGC		

NEB-17 PROGRAMME OF PLENARY TALKS

Monday 19/9/2016

08:15-09:00 REGISTRATION

09:00-09:15 **Welcome**

09:15-10:00 **R. Wald**

"Canonical Energy and Black Hole Stability"

10:00-10:45 **A. Ashtekar**

"Quantum Gravity in the Sky: Interplay between fundamental theory and observations"

10:45-11:15 **Coffee Break**

11:15-12:00 **P. Laguna**

"Relativistic Tidal Disruption Events"

12:00-12:45 **D. Shoemaker**

"Numerical Relativity and the first Detection of Gravitational Waves"

Tuesday 20/9/2016

16:30-17:00 **Coffee Break**

17:00-17:45 **K. Kokkotas**

"Gravitational Waves from Neutron Stars"

17:45-18:30 **D. Psaltis**

"The Event Horizon Telescope"

18:30-19:15 **L. Lehner**

"Promises, challenges & (some) answers in the era of gravitational wave astronomy"

Wednesday 21/9/2016

09:00-09:45 **R. Loll**

"Causal Dynamical Triangulations - a progress report"

09:45-10:30 **F. Barbero**

"Parametrized field theories: the role of boundaries and gauge symmetries"

Thursday 22/9/2016

09:00-09:45 **W. Unruh**

"Dumb hole -- experimental analogs to black holes"

09:45-10:30 **M. Dafermos**

"The interior of dynamic vacuum black holes and the strong cosmic censorship conjecture"

10:30-11:00 **Coffee Break**

11:00-11:45 **S. Capozziello**

"Constraining models of extended gravity using Gravity Probe B and LARES experiments"

11:45-12:30 **R. Brandenberger**

"String Theory and Early Universe Cosmology"

NEB-17 PROGRAMME OF PARALLEL SESSIONS

MONDAY 19/09/2016

PARALLEL SESSION A:

16:00-16:30	Th. Christodoulakis
16:30-16:50	B. Cuadros-Melgar
16:50-17:10	J. Markeviciute
Coffee Break	
17:40-18:00	I. Racz
18:00-18:20	T. Josset
18:20-18:40	H. Gohar
18:40-19:00	T. Trzesniewski
19:00-19:20	A. Zampeli

MATHEMATICAL RELATIVITY

"Conditional symmetries in axisymmetric quantum cosmologies with scalar fields and the fate of the classical singularities"
"Dynamical transition from AdS to a Lifshitz black hole"
"Stirring black holes: a new mechanism for violating cosmic censorship in AdS4"
"Constraints as evolutionary systems"
"Statistical mechanics of reparametrization-invariant systems"
"Varying Constants theories from Thermodynamics perspective"
"A model of the Curved Field Space Theory"
"Canonical quantization of pure gauge gravitational systems and probability analysis"

PARALLEL SESSION B:

16:00-16:30	E. Papantonopoulos
16:30-17:00	N. Tsamis
Coffee Break	
17:40-18:10	E. Saridakis
18:10-18:30	R. Benkel
18:30-18:50	K. Dialektopoulos
18:50-19:10	A. Karagiorgos

ALTERNATIVE THEORIES OF GRAVITY

"Gravitational Collapse in Horndeski Theory"
"Classical Gravitational Back-reaction"
"Torsional modified gravity and cosmology"
"Spherical collapse in Einstein-dilaton-Gauss-Bonnet gravity"
"Turnaround Radius in $f(R)$ gravity"
"General Analytical Solutions of Scalar Field Cosmology with Arbitrary Potential"

PARALLEL SESSION C:

16:00-16:30	Th. Apostolatos
16:30-16:50	W. Kluzniak
16:50-17:10	G. Lukes-Gerakopoulos
Coffee Break	
17:40-18:00	D. Gondek-Rosinska
18:00-18:20	H. Sotani
18:20-18:40	A. Coates
18:40-19:00	A. Cisterna Roa

RELATIVISTIC ASTROPHYSICS & GRAVITATIONAL WAVES

"Kerr black hole analogues from Newtonian mechanics"
"Oscillations of accretion tori and high frequency QPOs in black holes"
"Gravitational waves from a spinning compact object in EMRI"
"On the properties of differentially rotating neutron stars in GR"
"Gravitational wave asteroseismology in protoneutron stars"
"Gravitational Higgs Mechanism in Neutron Star Interiors"
"Slowly rotating neutron stars in the nonminimal derivative coupling sector of Horndeski gravity"

TUESDAY 20/09/2016

(There are no parallel sessions on Tuesday)

WEDNESDAY 21/09/2016

MORNING PARALLEL SESSION A:

11:00-11:20 D. Demir
11:20-11:40 E. Gumrukcuoglu
11:40-12:00 M. Krssak
12:00-12:20 E. Melas
12:20-12:40 -

MORNING PARALLEL SESSION B:

11:00-11:30 M. Plionis
11:30-11:50 E. Babichev
11:50-12:10 G. Acquaviva
12:10-12:30 G. Pantazis

MORNING PARALLEL SESSION C:

11:00-11:30 A. Tolley
11:30-11:50 Y. Rodriguez Garcia
11:50-12:10 J. Ovalle
12:10-12:30 M. Lagos
12:30-12:50 M. Saravani

AFTERNOON PARALLEL SESSION A:

16:00-16:20 V. Emelyanov
16:20-16:40 J. Ahmed
16:40-17:00 V. Toussaint
Coffee Break
17:40-18:00 K. Benakli
18:00-18:20 A. Anabalon
18:20-18:40 C. Markakis
18:40-19:00 Z. Roupas

AFTERNOON PARALLEL SESSION B:

16:00-16:30 C. Tsagas
16:30-16:50 C. Ganguly
16:50-17:10 T. Elghozi
Coffee Break

MATHEMATICAL RELATIVITY

"Curvature-Restored Gauge Invariance and Ultraviolet Naturalness"
"Suppressing Lorentz violations in observables and the mixed derivative extension of Horava Gravity"
"Local Lorentz Invariance in Teleparallel Gravity Models"
"Asymptotic symmetries in 3-dim General Relativity: the B(2,1) case. I. General results"

COSMOLOGY

"A New Hubble Expansion tracer and Cosmological Constraints"
"Gravitational origin of dark matter"
"Dark matter perturbations with causal bulk viscosity"
"A Comparison of Thawing and Freezing Dark Energy Parametrizations"

ALTERNATIVE THEORIES OF GRAVITY

"Galileon Dualities"
"From Scalar Galileons to Generalized and Covariantized (non-Abelian) Vector Galileons"
"Extra-dimensional gravity: a possible sign of conformal symmetry"
"Perturbative instabilities of black strings and black p-branes in higher curvature gravity"
"Stuckelberg approach to quadratic curvature gravity"

MATHEMATICAL RELATIVITY

"QED in the background of evaporating black holes"
"Quantum tunneling from black strings"
"Connection Between Unruh-DeWitt Fermionic and Scalar Detectors in $d \geq 2$ Minkowski spacetimes"

"On Swift Gravitons"
"Holographic Equation of State in Fluid/Gravity Duality"
"Acoustical metric and canonical fluid dynamics in numerical relativity"
"Gravitational Liquid Crystals"

COSMOLOGY

"On the kinematics of tilted Friedmann Universes"
"Isotropisation at early and at late times in cyclic universe models"
"The D-universe: Inflation and Graviton"

17:40-18:10	A. Vikman	"Expelling Cosmological Ghosts"
18:10-18:30	A. Majumdar	"Does structure formation impact the future cosmological evolution?"
18:30-18:50	T. Avgoustidis	"Cosmic (super)strings as cosmological probes into the Early Universe"

AFTERNOON PARALLEL SESSION C:

16:00-16:20	V. Pravda
16:20-16:40	A. Pravdova
16:40-17:00	A. Paliathanasis
	Coffee Break
17:40-18:00	M. Salgado
18:00-18:20	C. Pacilio
18:20-18:40	G. Kofinas

ALTERNATIVE THEORIES OF GRAVITY

"Exact solution to quadratic gravity"
"Universal spacetimes"
"Integrability in modified theories of gravity"
"Black holes in $f(R)$ gravity: scalar-hair or absence thereof"
"Smarr formula for Lovelock black holes: A Lagrangian approach"
"A modified Brans-Dicke gravity with energy exchange"

THURSDAY 22/09/2016

PARALLEL SESSION A:

16:00-16:20	T. Papakostas
16:20-16:40	G. Moschidis
16:40-17:00	D. Pranzetti
	Coffee Break
17:30-17:50	S. Gielen
17:50-18:10	E. Alesci
18:10-18:30	A. Karami Majoomerd
18:30-18:50	A. Pithis
18:50-19:10	E. Frodden

MATHEMATICAL RELATIVITY/QUANTUM GRAVITY AND QUANTUM COSMOLOGY

"Interior solutions in GRG"
"Superradiant instabilities for short-range non-negative potentials on Kerr spacetimes"
"Conformal symmetry and holography from quantum geometry"
"Connecting loop quantum cosmology and quantum gravity condensates"
"Quantum Reduced Loop Gravity and the relation with LQC"
"Effective Bianchi IX model in loop quantum cosmology"
"Effects of nonlinear effective interactions in GFT condensate cosmology"
"Nöther charges for asymptotic (a)dS spacetimes with tetradic-connection variables"

PARALLEL SESSION B:

16:00-16:20	C. Vayenas
16:20-16:40	G. Rosati
16:40-17:00	J. Rosa
	Coffee Break
17:30-17:50	J. Calderon Bustillo
17:50-18:10	N. Karnesis
18:10-18:30	G. Pappas
18:30-18:50	A. Maselli

RELATIVISTIC ASTROPHYSICS & GRAVITATIONAL WAVES

"Gravitational interactions of relativistic neutrinos"
"IceCube and GRB neutrinos propagating in quantum-gravity/quantum-spacetime"
"Superradiance in the sky"
"Higher order modes of Compact Binaries' Gravitational Radiation. Impact on detectability and parameter estimation"
"LISA Pathfinder: The first step towards a Gravitational-Wave observatory in space"
"The spacetime around compact objects"
"Binary black holes gravitational wave background as probe of alternative theories of gravity"

NEB-17 LIST OF POSTERS

Tuesday 20/9/2016

19.15: POSTER SESSION

ALPHABETICAL LIST OF POSTERS

Bedroya, Alek	"Quantum Field Theory Corrections to Black Holes"
Ceren, Guzelgun	"Open Source Computer Algebra Systems for General Relativity"
Grigoriou Dimitrios	"Gravitationally confined relativistic neutrinos"
Lioutas, Georgios	"An approximate relation for estimating the gravitational-wave damping timescales of f-modes in neutron stars"
Naulak, Malsawmtluangi	"Inflation and the BB-mode correlation spectrum of the Cosmic Microwave Background from massive gravity"
Ondrej, Kopacek	"Regular and chaotic motion in general relativity: The case of an inclined black hole magnetosphere"
Ronco, Michele	"Spacetime-noncommutativity regime of Loop Quantum Gravity"
Rostami, Tahereh	"Primordial inhomogeneities from massive defects during inflation"
Szkudlarek, Magdalena	"Globular clusters as sources of GW150914-like Black Hole binaries"
Szkudlarek, Magdalena	"On the maximum mass of differentially rotating Neutron Stars"
Uniyal, Rashmi	"Geodesic motion around Kerr-Sen black hole spacetime"
Wiśniewicz, Mateusz	"The effects of stellar rotation and general relativity on the stability of an accretion disc around neutron stars"
Wiśniewicz, Mateusz	"Long-term quasi-periodicity of 4U 1636-536 resulting from accretion disc instability"
Xie, Naqing	"Brown-York Mass and Trapped Surface Conjecture"
Zahedi, Ramin	"A Direct Derivation of a Definite Massive Gravitational Field Equations Solely by First Quantization of the Relativistic Energy-Momentum (algebraic) Relation"