

BritGrav 2013 The University of Sheffield: Programme		
Wednesday 3rd April 2013		Talks are 15 minutes in length
10:30am	Registration and coffee	Hicks Building K14
10:50am	Session 1, Chair: Elizabeth Winstanley	Hicks Building Lecture Theatre 7
10:50	John Greenlees	Welcome from the Head of School
11:00	Jorma Louko	Quantum fields in accelerated cavities: from relativistic velocities to a desktop experiment
11:20	Hugo Ferreira	Warped AdS ₃ black holes: are they classically stable?
11:40	Peter Millington	Perturbative non-equilibrium thermal field theory
12:00	Johnny Espin	Second order fermions and unification with gravity
12:20	Benito Juarez Aubry	Detector for a massless (1+1) field: Hawking radiation without infra-red sickness
12:40	Markus Fröb	The good, the bad and the ugly: including matter loops in the graviton two-point function in de Sitter
1:00pm	Lunch	
2:00pm	Session 2, Chair: Christian Luebbe	Hicks Building Lecture Theatre 7
02:00	Niels Warburton	Isofrequency pairing of geodesic orbits in Kerr geometry
02:20	Barry Wardell	Green function approach to self-force calculations
02:40	Anna Heffernan	Regularization of the self-force in Kerr space-time
03:00	Cesar Merlin	Self-force in a modified radiation gauge for circular and eccentric orbits
03:20	Patrick Nolan	Electromagnetic and gravitational self-force calculations in Schwarzschild space-time
3:40pm	Tea and coffee	Hicks Building K14
4:00pm	Session 3, Chair: John Miller	
04:00	Christian Krueger	Oscillations of maturing neutron stars
04:20	Tim Lemon	Numerical simulations of relativistic jets
04:40	Stephanie Erickson	Simulating the shattering of the neutron star crust
05:00	John Muddle	Multi-component numerical methods with magnetic fields
05:20	Ian Hawke	The nonlinear development of the relativistic two-stream instability
6:00pm	Reception	University Arms
Thursday 4th April 2013		Talks are 15 minutes in length
9:00am	Session 4: Peter Millington	Hicks Building Lecture Theatre 7
09:00	Brien Nolan	On the existence of dyons and dyonic black holes in Einstein-Yang-Mills theory
09:20	Wahiba Toubal	Defining mass for black holes with scalar hair in anti-de Sitter space-time
09:40	Carsten Gundlach	Critical phenomena at the threshold of immediate merger in binary black hole systems: the extreme mass ratio case
10:00	Helvi Wittek	Lighthouses in the sky
10:20	Alan Barnes	Vacuum space-times with a constant Weyl scalar
10:40	Tea and coffee	Hicks Building K14

11:00	Session 5, Chair: Timothy Clifton	Hicks Building Lecture Theatre 7
11:00	Adam Christopherson	Isocurvature perturbations and reheating in multi-field inflation
11:20	Ana Avilez	About the theoretical prior for the Brans-Dicke class at cosmological scales
11:40	Jack Morrice	Constraints on disformal couplings from the CMB temperature evolution
12:00	Godfrey Leung	Reheating in multifield inflation makes life harder for predicting observables
12:20	Carlos Hidalgo	Relativistic effects on the simulation of cosmological structure formation
12:40	Ippocratis Saltas	Asymptotically safe cosmology: an effective description
1:00pm	Lunch	
2:00pm	Session 6, Chair: Ian Hawke	Hicks Building Lecture Theatre 7
02:00	Joseph Bae	Modified semi-classical solutions to the Bianchi IX Wheeler-DeWitt equation
02:20	Ellie Nalson	Generating intergalactic magnetic fields in the early universe
02:40	Christian Luebbe	The cosmic-no-hair conjecture for 'almost-Bianchi' space-times
03:00	Priscilla Canizares	Fast Markov chain Monte Carlo for gravitational-wave parameter estimation
03:20	Rebecca Palmer	Noise modelling for atom interferometry
3:40pm	Tea and coffee	Hicks Building K14
4:00pm	Session 7, Chair: Sam Dolan	Hicks Building Lecture Theatre 7
04:00	Michael Fil'chenkov and Yuri Laptev	Quantum accretion of baryons onto miniholes
04:20	Presentation of prize for best student talk	