

"40 YEARS OF PULSARS" August 12th-17th, 2007

Talk types:	(R)	review talk	30+5 mins
	(I)	invited talk	20+5 mins
	(C)	contributed talk	12+3 mins

Sunday August 12th

5.00 - 7.00 pm *Opening reception in Rutherford Physics Building*

Monday August 13th: Pulsar emission and magnetospheres

Morning session

8.00 - 8.50	<i>Registration</i>	
8.50 - 9.00	<i>Welcome</i>	
9.00 - 9.15	A. Hewish	Conference opening: 40 Years of Pulsars
9.15 - 9.50	M. Kramer (R)	Observations of Pulsed Emission from Pulsars
9.50 - 10.15	A. Spitkovsky (I)	Pulsar Magnetospheres
10.15 - 10.55	<i>Coffee break and poster viewing</i>	
10.55 - 11.30	Y. Lyubarsky (R)	Pulsar Emission Mechanisms
11.30 - 11.45	J. Rankin (C)	Many Recent Insights into the Problem of Pulsar Radio Emission
11.45 - 12.00	P. Weltevrede (C)	The Subpulse Modulation Properties of Pulsars and its Frequency Dependence
12.00 - 12.20	Discussion led by D. Backer*	
12.20 - 2.05	<i>Lunch</i>	

Afternoon session

2.05 - 2.20	T. Hankins (C)	Radio Emission Signatures in the Crab Pulsar
2.20 - 2.35	D. Melrose (C)	How are Orthogonally-Polarized Modes Generated?
2.35 - 2.50	A. Lommen (C)	Observed X-ray/Radio Correlation in the Vela Pulsar
2.50 - 3.30	<i>Coffee break and poster viewing</i>	
3.30 - 3.55	D. Thompson (I)	Gamma-Ray Pulsar Studies with GLAST
3.55 - 4.10	L. Kuiper (C)	The Discovery of 4 Soft Gamma-Ray Pulsars with INTEGRAL and RXTE
4.10 - 4.25	N. Rea (C)	Discovery of X-ray Pulsations and Spectral Features from RRAT J1819-1458
4.25 - 4.40	S. Bogdanov (C)	An X-ray view of Radio Millisecond Pulsars
4.40 - 5.00	Discussion led by J. Rankin	
5.00 - 6.00	Poster session <i>with refreshments provided</i>	

Tuesday August 14th

Morning Session: Pulsar Wind Nebulae

9.00 - 9.25	G. Pavlov (I)	Pulsar Wind Nebulae in the Chandra Era
9.25 - 9.40	Y. Gallant (C)	VHE Gamma-Ray Emitting Pulsar Wind Nebulae Discovered by H.E.S.S.
9.40 - 9.55	O. Kargaltsev (C)	X-ray Observations of Pulsar Tails
9.55 - 10.35	<i>Coffee break and poster viewing</i>	
10.35 - 11.10	N. Bucciantini (R)	The Theory of Pulsar Wind Nebulae
11.10 - 11.25	J. Arons (C)	Beam Filamentation Instability of Interacting Current Sheets in Striped Relativistic Winds: The Origin of Low Sigma?
11.25 - 11.40	A. Deshpande (C)	Evidence for Collimated Particle Beams from Pulsars and Precession
11.40 - 12.00	Discussion led by F. Pacini	
12.00 - 1.45	<i>Lunch</i>	

Afternoon Session: Magnetars

1.45 - 2.10	P. Woods (I)	Observations of Magnetars
2.10 - 2.35	C. Thompson (I)	Magnetars
2.35 - 2.50	F. Gavriil (C)	Recent Activity in the Magnetar Candidate 4U 0142+61: Emission Lines During Bursts
2.50 - 3.05	R. Dib (C)	Glitches in Anomalous X-ray Pulsars
3.05 - 3.45	<i>Coffee break and poster viewing</i>	
3.45 - 4.00	P. den Hartog (C)	Extreme AXPs in the Hard X-ray Regime: Detailed Spectral and Temporal Characteristics
4.00 - 4.15	G. Israel (C)	Transient Phenomena in Anomalous X-ray Pulsars
4.15 - 4.30	D. Lai (C)	The Surface and Magnetospheres of Pulsars and Magnetars
4.30 - 4.45	A. Beloborodov (C)	Plasma around Magnetars
4.45 - 5.00	F. Ozel (C)	Physical Spectral Modeling Sheds Light on the Nature of AXPs
5.00 - 5.20	Discussion led by J. Arons	
5.20 - 6.30	Poster session <i>with refreshments provided</i>	
6.30	Public lecture <i>by Jocelyn Bell Burnell</i>	

Wednesday August 15th: Isolated Neutron Stars

Morning session

9.00 - 9.25	A. de Luca (I)	Central Compact Objects in Supernova Remnants
9.25 - 9.40	E. Gotthelf (C)	Compact central objects as young, weakly magnetized neutron stars
9.40 - 10.05	D. Kaplan (I)	Nearby, Thermally-Emitting Neutron Stars
10.05 - 10.20	M. van Kerkwijk (C)	The Puzzling Thermal Spectra of Thermally Emitting Isolated Neutron Stars
10.20 - 10.35	W. Ho (C)	Modeling Phase-Resolved Observations of Isolated Neutron Stars
10.35 - 11.15	<i>Coffee break and poster viewing</i>	
11.15 - 11.40	H.-T. Janka (I)	Supernova Explosions and Neutron Star Birth
11.40 - 12.05	H. Spruit (I)	The Origin and Evolution of Neutron Star Magnetic Fields
12.05 - 12.20	V. Petit (C)	A Fossil Origin for Neutron Star Magnetic Fields: Magnetic Properties of the Progenitor OB Stars
12.20 - 12.40	Discussion led by M. Ruderman	
12.40 - 2.40	Poster session <i>with lunch provided</i>	

Wednesday afternoon free

Thursday August 16th: Binary Neutron Stars

Morning session

9.00 - 9.25	V. Kalogera (I)	Neutron Stars Spun and Kicked: What Can Evolution and Population Studies Tell Us?
9.25 - 10.00	S. Ransom (R)	20 Years of Searching for (and Finding) Globular Cluster Pulsars
10.00 - 10.40	<i>Coffee break and poster viewing</i>	
10.40 - 11.05	N. Ivanova (I)	Formation of Millisecond Pulsars in Globular Clusters
11.05 - 11.20	D. Champion (C)	The Discovery of an Eccentric Millisecond Pulsar in the Galactic Plane
11.20 - 11.35	P. Freire (C)	Timing of PSR J1738+0333 and new limits on dipolar gravitational wave emission
11.35 - 12.00	Discussion led by E. van den Heuvel	
12.00 - 1.45	<i>Lunch</i>	

Afternoon session

1.45 - 2.20	I. Stairs (R)	Double Neutron Star Binaries
2.20 - 2.35	B. Willems (C)	New Perspectives on the Formation of Double Neutron Stars
2.35 - 2.50	R. Breton (C)	Using the Double Pulsar Eclipses to Test Fundamental Physics
2.50 - 3.05	R. Ferdman (C)	Profile Shape and Polarization Studies of the Double Pulsar
3.05 - 3.45	<i>Coffee break and poster viewing</i>	
3.45 - 4.10	C. Deloye (I)	The Connection Between Millisecond Pulsars and LMXBs
4.10 - 4.25	J. Poutanen (C)	The Physics of Accretion-Powered Millisecond Pulsars
4.25 - 4.40	J. Hartman (C)	Long-Term Timing of the Accreting Millisecond Pulsar SAX J1808.4-3658
4.40 - 4.55	C. Heinke (C)	SAX J1808.4-3658 in Quiescence: a Keystone for Neutron Star Science
4.55 - 5.15	Discussion led by A. Lyne	
6.45 - 9.00	Conference Banquet at Altitude 737 Restaurant, Place Ville-Marie	

Friday August 17th

Morning Session: The Neutron Star Equation of State

9.00 - 9.35	D. Yakovlev (R)	Theory of Cooling Neutron Stars Versus Observations
9.35 - 10.00	P. Jonker (I)	The Quiescent Luminosity of Neutron Star Transients: Implications for the Equation of State
10.00 - 10.15	S. Reddy (C)	Neutrino Rates in Dense Superfluids
10.15 - 10.55	<i>Coffee break and poster viewing</i>	
10.55 - 11.20	D. Nice (I)	Neutron Star Mass Measurements
11.20 - 11.45	D. Galloway (I)	Accreting Neutron Star Spins and the Equation of State
11.45 - 12.05	Discussion led by R. Blandford*	
12.05 - 2.00	<i>Lunch</i>	

Afternoon Session: Surveys and the Pulsar Population

2.00 - 2.25	A. Lyne (I)	Parkes Pulsar HI Multibeam Surveys
2.25 - 2.50	J. Cordes (I)	Pulsar searches with ALFA
2.50 - 3.15	C. Kim (I)	The Galactic Pulsar Population: Current Understanding and Future Prospects
3.15 - 3.55	<i>Coffee break and poster viewing</i>	
3.55 - 4.20	R. Manchester (I)	The Parkes Pulsar Timing Array Project
4.20 - 4.35	D. Helfand (C)	Young Supernova Remnants, PWN, and Pulsars in the MAGPIS Survey
4.35 - 4.50	B. Stappers (C)	Low Frequency Observations of MSPs and More
4.50 - 5.05	B. Owen (C)	How LIGO and Pulsar Astronomy Can Complement Each Other Right Now
5.05 - 5.25	Discussion led by R. Manchester	
5.25 - 5.45	J. Taylor	Conference summary

Posters

Name and abstract no.	Title
N. Rea (034)	Modelling the high-energy spectrum of magnetars
A. Baykal (038)	Timing studies on RXTE observations of SAX J2103.5+4545
C. Motch (039)	Proper motions of ROSAT discovered isolated neutron stars measured with Chandra
J.L. Han (040)	Pulsars as probes of interstellar magnetic fields
A. M. Pires (041)	Searching for new thermally emitting isolated neutron stars in the 2XMM catalogue
T. Regimbau (042)	Gravitational wave stochastic background from magnetars
J. Gil (043)	X-ray pulsar radiation from hot polar caps heated by back-flow bombardment
J. Kijak (044)	Turn-over in pulsar radio spectra: From young pulsars to millisecond ones.
Y. N. Istomin (046)	The energy loss of a rotating magnetized neutron star
Y.N. Istomin (047)	Production of an electron-positron plasma in a magnetar magnetosphere
J. Petri (048)	Magnetic reconnection at the termination shock in a striped pulsar wind
R. Mignani (049)	Neutron stars optical astronomy: where do we go from here?
C. A. Faucher-Giguere (050)	Birth and evolution of isolated radio pulsars
J. Dyks (051)	Double notches - a zoom into the microphysics of coherent radio emission from pulsars
S. Mereghetti (052)	The discovery of pulsations in RX J1856.5-3754
T. Munoz-Darias (056)	The mass of the LMXB X-ray pulsar X1822-371
C. M. Zhang (058)	On the bottom spin period and magnetic field of millisecond pulsar
D. Gotz (060)	INTEGRAL monitoring of the magnetars' hard X-ray emission
P. Esposito (061)	XMM-Newton, Suzaku, and INTEGRAL observations of the soft gamma-ray repeater SGR 1806-20
L. Keek (062)	First superburst from a classical low-mass X-ray binary transient
Z. N. Osmanov (063)	On the reorganization of a magnetosphere of pulsars nearby the light cylinder surface
M. Durant (064)	Extinction as a tool to find distances to X-ray sources
J. Hessels (065)	The GBT350 Survey of the northern Galactic plane for radio pulsars and transients
J. L. Sheckard (067)	A complete sample of crab pulses at 21cm
X. Li (069)	The nature of the X-ray source 1E 161348-5055 in SNR RCW 103
J. Uruma (070)	Glitches, timing noise and spin parameters
J. Petri (071)	Electrodynamics of pulsar electrospheres
J. Petri (072)	Forced oscillations in relativistic accretion discs and QPOs
J. Petri (073)	Polarisation of high-energy emission in a pulsar striped wind
P. C. C. Freire (075)	Eight new pulsars in NGC 6440 and NGC 6441
P. C. C. Freire (076)	Timing the Eccentric Millisecond Pulsar in NGC 1851
J. P. W. Verbiest (078)	Long term, high precision pulsar timing
G. Hobbs (079)	Using pulsars to limit the existence of a gravitational wave background
A. A. Ershov (080)	On radio emission of the Geminga pulsar
A. A. Ershov (081)	A search for pulsed radio emission from anomalous X-ray pulsar (magnetar) 4U 0142+61 at the frequency of 111 MHz
A. A. Ershov (082)	A search for pulsed radio emission from isolated neutron star (XDINs) RX J1308.6+2127 (RBS 1223) at the frequency of 111 MHz
A. A. Ershov (083)	On scattering of giant radio pulses from the Crab pulsar

- A. De Luca (086) Hubble Space Telescope catches a moving hot spot in the pulsar wind nebula of PSR B0540-69
- A. De Luca (087) Phase-resolved spectroscopy of the Vela Pulsar with XMM-Newton
- J. Hoyos (088) Multi-Fluid Simulation of the Magnetic Field Evolution in Neutron Stars.
- J. McDonald (089) Investigations into the plasma distribution in the vicinity of a Pulsar: DYMPHNA3D
- J. Hoyos (090) Multi-fluid simulation of the magnetic field evolution in neutron stars
- G. Wright (091) Null patterns in pulsar emission
- G. Melikidze (092) Partially screened polar gap and its observational consequences
- A. Alpar (093) Precession of a superfluid neutron star
- A. Alpar (094) The fastest dynamical frequencies in matter around neutron stars
- D. Leahy (095) Time delays, doppler effects and oblateness: results for the ms pulsars SAX J1808-3658 and XTE J1814-338
- A. Slowikowska (096) High energy polarization of pulsars - observations vs. models
- J.L. Herfindal (098) Periodic nulls in pulsar B1133+16
- A. E. Chukwude (099) Long-term rotational history of the pulsar B0959-54: evidence for magnetic axis re-orientation?
- D. A. Smith (100) Gamma ray pulsars with the GLAST Large Area Telescope
- D. Mitra (101) Are partial cones `aberrated' cones?
- D. Mitra (102) On the subpulse modulation and carousel circulation time of PSR B1857-26
- D. Mitra (103) On the absolute broadband polarization behaviour of PSR B0329+54
- S. A. Suleymanova (104) Emission of pulsar B0943+10 in the burst mode: remarkably continual changes in the subpulse drift rate and in integrated pulse shape
- A. L. Piro (106) The turbulent story of X-ray bursts
- D. Lomiashvili (107) On the recently discovered pulsations from RX J1856.5-3754
- J. Herfindal (108) Periodic nulling in pulsars exhibiting conal single and double profiles
- J. Weisberg (109) A simple model for the observed pulse profiles of precessing pulsars
- A. V. Bilous (111) Review of overall parameters of giant radio pulses
- M. W. Verdon (113) Radio emission and polarization in an oscillating model for pulsar electrodynamicics
- D. Yardley (114) Correlations in the timing data of pulsars in the Parkes pulsar timing array
- R. T. Gangadhara (115) Polarization of radiation emitted by relativistic sources in pulsars
- R. M. C. Thomas (116) Emission height of core in PSR B2111+46
- R. T. Gangadhara (117) Geometry of emission region in pulsars and the stokes parameters
- Y. T. Tanaka (118) Comparative study of the initial spikes of SGR giant flares in 1998 and 2004 observed with GEOTAIL
- F. Pizzolato (119) The nature of the X-ray source 1E 161348-5055 in the supernova remnant RCW 103
- V. Malofeev (120) Pulsed emission from AXP and XDINS at low radio frequencies
- B. C. Joshi (121) Discovery of 3 new pulsars in a search with the GMRT
- Y. Yatsu (123) A study of rapid expanding HII region RCW 89
- S. L. Redman (124) New insights into pulsar nulling
- B. C. Joshi (125) Simultaneous multi-frequency study of Giant pulses in Crab pulsar with GMRT
- B. Stappers (126) The drift modes of PSR B0943+10
- J. M. Rankin (127) Exploring the absolute OPM geometry of outer conal emission
- M. A. Livingstone (128) Timing the pulsar at the center of the supernova remnant 3C 58
- P. Weltevrede (129) Pulsar B0656+14: highly unusual emission properties and a local RRAT
- C. G. Bassa (130) The mass and origin of a binary millisecond pulsar
- Y. Maan (131) Revisiting the rich sub-pulse patterns of B1237+25
- R. S. Lynch (134) Pulsar back-ends for the GBT: upgrades to the pulsar spigot and the upcoming ``Dream Machine"

- G. H. Janssen (135) Timing binary pulsars with the EPTA
 B. Posselt (136) Planets around pulsars and radio-quiet neutron stars
 S. Safi-Harb (137) A deep Chandra study of the high-magnetic field radio pulsar J1119-6127 and associated compact nebula
 N. Prasad (138) Formation scenario of magnetars: the puzzle of isolation
 C. R. Tam (139) 1E 1048.1-5937: The X-ray and near-IR behavior of a particularly anomalous X-ray pulsar
 M. E. Gonzalez (140) Long-term evolution of the emission from the anomalous X-ray pulsar 4U 0142+61
 M. E. Gonzalez (141) Chandra view of the Vela-like pulsar B1823-13 and its pulsar wind nebula: A prototyping for TeV-emitting nebulae?
 J. M. Rankin (142) Interaction between nulls and emission in pulsar B0834+06
 V.I. Kondratiev (143) A search for pulsed and bursty radio emission from X-ray dim isolated neutron stars
 J. M. Rankin (146) The periodic nulls of pulsar J1819+1305: evidence of subbeam carousel circulation?
 F. Crawford (147) A search for single radio pulses and bursts from southern AXPs
 P. C. C. Freire (148) Discovery and timing of the PSR J1741+1351 binary pulsar
 J. van Leeuwen (149) Next stop: LOFAR
 W. W. Zhu (150) The long-term radiative evolution of anomalous X-ray pulsar 1E 2259+586 after its 2002 outburst
 L. E. Kasian (155) Observations of the young relativistic binary PSR J1906+0746
 A. Patruno (156) Coherent analysis of the millisecond X-ray pulsar XTE J1807-294
 E. Rubio-Herrera (159) TBD
 Z. Wang (160) Spitzer IRS spectroscopic and MIPS 24 micron imaging observations of the anomalous X-ray pulsar 4U 0142+61
 C. Airhart (161) Long-term monitoring of the isolated neutron star RX J1308.6+2127
 P. S. Ray (162) X-ray and radio timing of PSR B1821-24
 R. Fernandez (164) Multidimensional resonant cyclotron scattering and the quiescent X-ray emission from magnetars
 M. Landry (167) Searches for continuous gravitational waves with LIGO and GEO600
 M. Morii (170) Suzaku observation of the AXP 1E 1841-045
 J. Betzwieser (171) Reaching the Crab pulsar spin-down limit with LIGO
 B. Krishnan (175) Semi-coherent search techniques for continuous gravitational wave signals
 R. Prix (176) Einstein@home
 D. Lai (179) Probing axions with radiation from magnetic neutron stars
 L. Nelson (181) Radio ejection and the orbital period gap in the distribution of wide binary millisecond pulsars
 P. Kiel (182) Populating a galaxy of pulsars
 A. I. Ibrahim (183) Understanding the spectral evolution in magnetar bursts
 A. I. Ibrahim (184) Spectral and temporal correlations of magnetar bursts
 K. Hoffman (185) Neutron star crustal mass fractions
 A. I. Ibrahim (186) Thermal versus non-thermal magnetar bursts
 B. Kiziltan (187) Connecting the current to the past: the spin-down evolution of millisecond pulsars
 S. Boutloukos (188) The largely varying frequency separation between the kHz QPOs of Circinus X-1
 A. M. Archibald (189) Red noise in anomalous X-ray pulsar timing residuals
 A. M. Archibald (190) Measuring pulsed flux of noisy signals
 A. I. Ibrahim (191) Chandra HETG view of SGR 1900+14
 B. Kiziltan (192) Pulsar astronomy in the GLAST era!
 S. Buchner (193) Glitches in the Vela pulsar
 V. Malofeev (194) Spectra millisecond pulsars

- S. Dall'Osso (196) Magnetars at birth: physical constraints and gravitational wave emission
- R. Karuppusamy (197) Multi frequency studies of Crab giant pulses
- A. Corongiu (198) Parkes observations of radio pulsars in southern globular clusters
- D. B. Fox (199) Hunting for neutron stars with the Swift satellite
- S. Campana (200) Swift observation of the latest stages of the 2006 SAX approaching quiescence
- S. B. Popov (201) Space cowboys odyssey: beyond the Gould Belt
- M. Burgay (202) A multiwavelength search for pulsed and bursty radio emission from X-ray dim isolated neutron stars
- A. Possenti (203) New constraints on the spectrum and on the orbital modulation of the X-ray emission from the double pulsar system
- A. Possenti (204) A search for radio pulsars in unidentified TeV Sources
- N. R. Robba (205) Constraints to the EOS of ultradense matter with model-independent astrophysical observations
- M. S. E. Roberts (206) Pulsars everywhere! A galactic EGRET source retrospective
- L. Burderi (208) Modelling the accretion torque: a solution of an accretion disk around a magnetized compact object
- T. Di Salvo (209) Spin-up and spin-down in accreting millisecond pulsars: finding order in the chaos
- S. S. Komissarov (210) Magnetar-driven hypernovae explosions
- S. Balman (211) A study of the low-mass X-ray binary dip sources XB 1916-053, XB 1323-619, X 1624-490 and 4U 1746-371 observed with INTEGRAL
- R. P. Breton (213) PSR J1744-3922: hint of a new binary pulsar class?
- D. Kulebi (214) The broad-band noise characteristics of selected AXPs and SGRs
- D. Nice (216) I get a (little) kick out of you: Arecibo observations of the proper motion of PSR B1913+16
- R. Dib (217) 10 Years of RXTE monitoring of five anomalous X-Ray pulsars
- I. Cognard (221) Change in the pulse component separation for PSR J1906+0746
- A.N. Timokhin (223) On the nature of QPO in the tail of SGR giant flares
- W. Yu (224) Maximum kHz QPO frequency and constraints on neutron star mass and radius
- J. Kildea (225) VERITAS Observations of pulsars
- E. Beklen (226) Timing Studies on RXTE Observations of 4U 1608-52