

# **POSTERS BOOK**

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# Venue: Minoa Palace Hotel (Imperial Main Hall)

A conference organized by the National Observatory of Athens, Greece

# **CONFERENCE POSTERS**

# Session 1 [Radiation studies from gamma-rays to radio in Galactic and Extragalactic SNRs]

S1.1	B. Arbutina	Some statistics of optical supernova remnant candidates in nearby galaxies
S1.2	R. Bandiera	Synchrotron emission in the case of a partly random magnetic field, and the study of some general properties of radio shell-type supernova remnants.
S1.3	P. Boumis	A deep optical study of the supernova remnant G 166+4.3
S1.4	J. Devin	Disentangling the hadronic from the leptonic emission in the composite SNR G326.3-1.8
S1.5	V. Dwarkadas	The X-ray Emission From Young Supernovae as a Probe of their Progenitors
S1.6	E. Egron	Observations of Supernova Remnants with the Sardinia Radio Telescope
S1.7	B. Eichmann	The Radio-Gamma Correlation In Starburst Galaxies
S1.8	T. Ergin	Investigating the X-ray and Gamma-ray Properties of the Galactic Supernova Remnants Kes 69, 3C 396, 3C 400.2
S1.9	B. Humensky	The TeV Morphology of the Interacting Supernova Remnant IC 443
S1.10	Y. Kim	A New Supernova Remnant Candidate in the UWIFE [Fe II] Line Survey
S1.11	M. Kopsacheili	New candidate supernova remnants in nearby galaxies
S1.12	K. S. Long	The X-ray Properties of Supernova Remnants in Nearby Galaxies
S1.13	S. Loru	Modelling high-resolution spatially-resolved SNR spectra with the Sardinia Radio Telescope
S1.14	P. Maggi	Fe K and ejecta emission in SNR G15.9+0.2 with XMM-Newton
S1.15	D. Onić	On the shape of SNR IC443 radio to infrared continuum spectrum
S1.16	0. Petruk	Magnetohydrodynamic simulations of the polarized radio emission of the adiabatic SNRs in ISM with nonuniform distribution of density and magnetic field
S1.17	G. Puehlhofer	New constraints on the TeV SNR shells RX J1713.7-3946 and HESS J1731-347
S1.18	A. Sezer	Searching for the Time Variation in Supernova Remnant RX J1713.7-3946
S1.19	A. Sezer	Searching for evidence of non-thermal X-ray emission from supernova remnant W49B
S1.20	W. Sun	Chandra Observation of the Supernova Remnant N11L
S1.21	I. Sushch	Deep H.E.S.S. Obervations of the Supernova Remnant RX J0852.0-4622
S1.22	M. Vučetić	Optical observation of supernova remnant in elliptical galaxy NGC 185
S1.23	J. West	Cygnus Loop: A double bubble?
S1.24	X. Zhang	The role of the diffusive protons in the gamma-ray emission of supernova remnant RX J1713.7-3946 - a two-zone model

#### Session 2 [The search for the binary companions of SN progenitors in SNRs]

S2.1	S. Gomes	A survey of symbiotic stars in the SMC
S2.2	A. Pannicke	Runaway Stars in Supernova Remnants

#### Session 3 [Pulsar wind nebulae (including Crab flares)]

S3.1	R. Bandiera	A (semi)-analytic view of the inner structure of Pulsar Wind Nebulae
S3.2	B. Guest	Peering deeper into the plerionic supernova remnant G21.5-0.9
S3.3	R. WY. Leung	High Resolution Radio Imaging Study of the Pulsar Wind Nebula MSH 15-52
S3.4	C. Maitra	The intriguing double torus-jet PWN around PSR J0855-4644
S3.5	CY. Ng	Discovery of a Radio Bubble Trailing PSR J1015-5719
S3.6	I. Sushch	Radio Observations of the Pulsar Wind Nebula HESS J1303–631 with ATCA
S3.7	S. Tanaka	A Stochastic Acceleration Model of Radio Emission from Pulsar Wind Nebulae

#### Session 4 [Magnetic fields in SNRs and PWNe]

S4.1	O. Kobzar	Nonlinear Evolution of the Nonresonant Instability
		Upstream of a Young Supernova Remnant Shock
S4.2	O. Petruk	Magnetohydrodynamic simulations of the post-adiabatic
		supernova remnants in the interstellar magnetic field
S4.3	P. Reich	A new high-latitude low-surface brightness SNR
S4.4	M.S.E. Roberts	What Can Redbacks and Black Widows Teach Us About
		Pulsar Winds?
S4.5	S. Safi-Harb	Insights into pulsars' magnetic field evolution and energy
		loss mechanisms from studying pulsar-SNR associations

#### Session 5 [Collisionless shock waves in SNRs]

S5.1 L. Hovey A Direct Measurement of the Forward Shock Speed in Supernova Remnant 0519-69.0: Constraints on the Age, Ambient Density and Electron-ion Temperature Equilibration.

#### Session 6 [Jets and asymmetries in SNe and their remnants]

S6.1 M. Gabler The first few month of a supernova remnant

## Session 7 [SNRs as probes and drivers of galaxy structure]

S7.1	D. Huizenga	A Radio Selected Supernova Remnant Catalog in the
		Magellanic Clouds
S7.2	D. Leahy	Supernova Remnant Explorer
S7.3	D. Leahy	HI absorption spectra for Supernova Remnants in the VGPS
		survey
S7.4	M. Sasaki	SNR-shock Impact on Star Formation
S7.5	B. Vukotić	An empirical study on distances and evolution of
		supernova remnants: insights from "Sigma D" data
		distribution

## Session 8 [SNe and SNRs cosmic ray acceleration]

S8.1	R. Brose	Transport of magnetic turbulence in supernova remnants
S8.2	E. Giacani	The interstellar medium towards three Supernova
		Remnants
S8.3	J. Niemiec	Electron energization through spontaneous turbulent
		magnetic reconnection at nonrelativistic perpendicular
		shocks
S8.4	M. Pavlović	Radio evolution of supernova remnants including non-
		linear particle acceleration" and not "Importance of
		Richtmyer-Meshkov Instability on Measurements of
		Cosmic-Ray Acceleration Efficiency at Supernova Remnants
S8.5	J. Shimoda	Importance of Richtmyer-Meshkov Instability on
		Measurements of Cosmic-Ray Acceleration Efficiency at
		Supernova Remnants
S8.6	L. Supan	First GMRT radio observations of the SNR candidate
		G29.37+0.10

# Session 9 [SN ejecta – abundances, clumpiness]

S9.1	P. Cigan	High-resolution observations of dust in SN1987A
S9.2	R. Fesen	Optical and UV Spectra of the Remnant of SN 1885 (S And) in M31
S9.3	S. Marassi	SN Dust Yields: Fallback, Metallicity and Rotation Impact
S9.4	H. Matsumura	Discovery of Recombining Plasma in G166.0+4.3: A Mixed-
		Morphology Supernova Remnant with an Unusual
		Structure
S9.5	F. Priestley	The origin of the argonium emission discovered in the Crab
		Nebula
S9.6	E. Tsiakaliari	Dust formation in Supernovae

# Session 10 [SNe and SNRs with circumstellar interactions]

S10.1	A. Alarie	Multispectral analysis of Cygnus Loop and IC 443 with iFTS
S10.2	N. Bartel	Supernova research with VLBI
S10.3	M. Bocchio	Dust grains from the heart of supernovae
S10.4	YH. Chu	Type Ia Supernova Remnants in the Large Magellanic Cloud

#### SUPERNOVA REMNANTS: AN ODYSSEY IN SPACE AFTER STELLAR DEATH

S10.5 S10.6	J. E. Drew É. Harvey	Exploiting IPHAS H-alpha imagery of supernova remnants The previous nebulous incarnations of type Ia supernovae
S10.7	D. Kantzas	Early time signatures of gamma-ray emission from Supernovae in dense Circumstellar Media
S10.8	D. Kantzas	The Effect of Circumstellar Medium on Cosmic Ray Acceleration in Type Ia Supernovae
S10.9	HG. Lee	Near-infrared IFU and MOS observations of supernova remnants
S10.10	YH. Lee	Supernova Remnants in the UWIFE and UWISH2 Surveys
S10.11	M. Miceli	Investigating the Galactic Supernova Remnant Kes 78 with XMM-Newton
S10.12	E. R. Micelotta	Dance into the fire: dust survival inside supernova remnants
S10.13	K. Migotto	The circumstellar ring of SN 1987A
S10.14	S. Orlando	Three-dimensional hydrodynamic modeling of SN 1987A from the supernova explosion till the Athena era
S10.15	L. Pan	The impact of supernova remnants on interstellar turbulence and star formation
S10.16	S. P. Reynolds	Asymmetric Expansion of the Youngest Galactic Supernova Remnant G1.9+0.3
S10.17	A. Sarangi	Dust formation in dense CSM behind the shock: A study based on SN2010jl
S10.18	X. Tang	Kinematic evolution of non-radiative supernova remnants
S10.19	B. Yu	Determination of the extinction law of dust in SNRs



### SUPERNOVA REMNANTS: AN ODYSSEY IN SPACE AFTER STELLAR DEATH

