

SUPERNOVA REMNANTS

AN ODYSSEY IN SPACE AFTER STELLAR DEATH
6 - 11 JUNE 2016, CHANIA, CRETE, GREECE



PROGRAM BOOK

Scientific Organizing Committee:

P. Boumis (Greece, co-chair)
J. Raymond (USA, co-chair)
T. Bell (UK)
W. Blair (USA)
K. Borkowski (USA)
A. Decourchelle (France)
R. Fesen (USA)
D. Green (UK)
R. Kothes (Canada)
A. Rest (USA)
P. Slane (USA)

Local Organizing Committee:

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A. Bonanos (Greece, co-chair)
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M. Kourniotis (Greece)
I. Leonidaki (Greece)
A. Manousakis (Poland)
M. Pliatsika (Greece)
Z.T. Spetsieri (Greece)
S. Williams (Greece)

Venue: Minoa Palace Resort & Spa (Imperial Main Hall)

A conference organized by the National Observatory of Athens, Greece

CONFERENCE PROGRAM

Sunday June 05

16:00 – 18:30 Registration
20:30 – 00:00 **Welcome Reception** @ beach area of Minoa Palace Resort

Monday June 06

07:45 – 08:30 Registration

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

Morning Session (Chair: D. Green)

08:30 – 08:40 P. Boumis/J. Raymond - Welcome
08:40 – 09:20 R. Chevalier (Opening Plenary) [Trends in SNR research]
09:20 – 10:00 **[S1]** B. Williams [Recent Progress on Young Galactic SNRs]
10:00 – 10:20 **↓** R.C.G. Chaves [TeV Remnants in the H.E.S.S. Galactic Plane Survey]
10:20 – 10:40 M.-H. Grondin [New Extended GeV Sources in the Galactic Plane Found in a Search of the Pass 8 data from Fermi-LAT]
10:40 – 11:00 M. Arias de Saavedra Benítez [SNRs with LOFAR]
11:00 – 11:30 Coffee Break & Poster Viewing
11:30 – 12:10 I. Leonidaki [Probing the properties of extragalactic SNRs]
12:10 – 12:30 M. Filipovic [Observational facts of Extragalactic SNRs]
12:30 – 12:50 B.-C. Koo [Infrared SNRs and their Infrared to X-ray Flux Ratios]
12:50 – 13:10 F. Acero [Thermal X-rays and shock speed measurement in RX J1713.7–3946]
13:10 – 14:40 Lunch

Session 1 [Radiation studies from gamma-rays to radio in Galactic and Extragalactic SNRs] & Session 2 [The search for the binary companions of SN progenitors in SNRs]

Afternoon Session (Chair: W. Blair)

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14:40 – 15:00	K. S. Long [Radio Properties of M33 SNRs: Results from a New Deep JVLA Survey]
15:00 – 15:20	X. Tang [Gamma ray emission from middle aged SNRs interacting with molecular clouds]
15:20 – 15:40	T. E. Woods [SN Ia Archaeology: Searching for the relics of progenitors past]
15:40 – 16:20	[S2] W. Kerzendorf [Surviving companions of SNe] ↓
16:20 – 16:50	Coffee Break & Poster Viewing
16:50 – 17:30	S. Van Dyk [SN Progenitors and Their Binary Companions]
17:30 – 17:50	B. Dinçel [OB Runaway Stars inside the SNRs S147 and IC443]
17:50 – 18:10	C. -J. Li [Type Ia SNR N103B: structure of the remnant and properties of the progenitor]
18:10 – 18:30	L. Hovey [Reviving the Single Degenerate Scenario for the Ia SN Event that Formed Remnant 0509-67.5]

Tuesday June 07

**Session 3 [Pulsar wind nebulae (including Crab flares)] &
Session 4 [Magnetic fields in SNRs and PWNe]**

Morning Session (Chairs: P. Slane / R. Kothes)

09:00 – 09:40	[S3] S. Safi-Harb [High-energy observations of PWNe]
09:40 – 10:00	↓ R. Kothes [On Distance and Age of PWN 3C58]
10:00 – 10:40	T. Temim [Evolution of Pulsar Wind Nebulae inside SNRs]
10:40 – 11:00	M. F. Bietenholz [New Radio and Optical Expansion Rate Measurements of the Crab Nebula]
11:00 – 11:30	Coffee Break & Poster Viewing
11:30 – 11:50	G. Pühlhofer [The Lighthouse nebula: a run-away pulsar, its PWN, jets and parent SNR]
11:50 – 12:10	D. A. Green [GMRT observations of the radio trail from the PWN CXOU J163802.6-471358]
12:10 – 12:30	B. Olmi [Newest insights from MHD numerical modeling of PWNe]
12:30 – 13:10	[S4] S. Reynolds [Magnetic fields in SNRs and PWNe: Deductions from X-ray observations] ↓
13:10 – 14:40	Lunch

**Session 4 [Magnetic fields in SNRs and PWNe] &
Session 5 [Collisionless shock waves in SNRs]**

Afternoon Session (Chairs: R. Kothes / J. Hughes)

- 14:40 – 15:20 W. Reich [Magnetic fields in SNRs and PWNe: radio polarization results]
15:20 – 15:40 D. Castro [The Northern Rims of SNR RCW 86 – Chandra’s Recent Observations and their Implications for Particle Acceleration]
15:40 – 16:00 P. Kavanagh [Magnetic field estimates from the synchrotron X-ray shell of 30 Dor C, the first TeV superbubble]
16:00 – 16:20 **[S5]** S. Knezevic [H α imaging spectroscopy of Balmer-dominated shocks in Tycho’s SNR]
↓
16:20 – 16:50 Coffee Break & Poster Viewing
16:50 – 17:30 E. Amato [Recent developments on the SNR-CR connection]
17:30 – 17:50 P. F. Winkler [Expansion Measurements of Young Type Ia SNRs and the Physics of Nonradiative Shocks]
17:50 – 18:30 P. Ghavamian [Electron-ion thermal equilibration in collisionless shocks]

Wednesday June 08

**Session 6 [Jets and asymmetries in SNe and their remnants] &
Session 7 [SNRs as probes and drivers of galaxy structure]**

Morning Session (Chairs: R. Fesen / M. Filipovic)

- 09:00 – 09:40 **[S6]** N. Soker [The role of jets in exploding SNe and shaping their remnants]
↓
09:40 – 10:00 J. P. Hughes [A Kinematic Study of Tycho’s SNR]
10:00 – 10:20 A. Wongwathanarat [3D long-time CCSN simulations: from shock revival to shock break-out]
10:20 – 10:40 S. Park [A Chandra Study of G299.2-2.9: The Remnant of an Asymmetric Type Ia Explosion?]
10:40 – 11:00 S. Orlando [Modeling post-explosion anisotropies of ejecta in SNR Cassiopeia A]
11:00 – 11:30 Coffee Break & Poster Viewing
11:30 – 12:10 L. Lopez [Investigating the symmetry and progenitors of SNRs using x-ray observations]
12:10 – 12:30 G. Leloudas [What do the remnants of superluminous SNe look like?]

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12:30 – 13:10	[S7] G. Dubner [Radio emission from supernova remnants]
13:10 – 13:30	↓ J. West [Bilateral symmetry in SNRs and the connection to the Galactic magnetic field]
13:30 – 13:50	S. Sarbadhicary [Statistical modelling of supernova remnant populations in the Local Group]
13:50 – 14:00	Conference Photo
16:00 – 22:00	Excursion #1: Chania City Tour
16:00	Buses depart from Minoa Palace Resort to Chania
21:30	Buses depart from Chania to Minoa Palace Resort

Thursday June 09

**Session 7 [SNRs as probes and drivers of galaxy structure] &
Session 8 [SNe and SNRs cosmic ray acceleration]**

Morning Session (Chairs: M. Filipovic / S. Reynolds)

09:00 – 09:40	H. Lee [Broadband Emission Models for Young to Middle-aged SNRs and What To Learn from Them]
09:40 – 10:00	W. P. Blair [X-ray, Optical, and Radio properties of the extensive SNR population in M83]
10:00 – 10:20	P. Maggi [X-raying SNRs in the Magellanic Clouds]
10:20 – 11:00	[S8] A. Spitkovsky [Particle acceleration in collisionless shocks: insights from kinetic simulations]
11:00 – 11:30	Coffee Break & Poster Viewing
11:30 – 11:50	K. Koyama [Iron K shell line, a probe of low energy cosmic rays in SNRs]
11:50 – 12:10	A. Weinstein [Studies of young and hard-spectrum SNRs with VERITAS]
12:10 – 12:30	G. Ferrand [3D simulations of young core-collapse SNRs undergoing efficient particle acceleration]
12:30 – 12:50	V. Dwarkadas [Gamma-rays and Neutrinos from Efficient Cosmic-Ray Acceleration in Young SNe]
12:50 – 13:10	K. Auchettl [G 346.6-0.2: Non-thermal X-ray emission from a Mixed-Morphology SNR]
13:10 – 14:40	Lunch

**Session 8 [SNe and SNRs cosmic ray acceleration] &
Session 9 [SN ejecta – abundances, clumpiness]**

Afternoon Session (Chair: S. Reynolds / L. Lopez)

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14:40 – 15:20	M. Lemoine-Goumard [Acceleration of cosmic rays at SNR shocks: constraints from gamma-ray observations]
15:20 – 15:40	M. Miceli [Modeling the shock-cloud interaction in SN 1006: particle acceleration and non-thermal emission]
15:40 – 16:00	A. Wilhelm [Stochastic acceleration and magnetic damping in Tycho's SNR]
16:00 – 16:20	M. Cardillo [The middle aged SNR W44: most likely reacceleration without any break]
16:20 – 16:50	Coffee Break & Poster Viewing
16:50 – 17:30	[S9] C. Badenes [The Riddle of Steel: Fe-peak Elements in Type Ia SNRs]
	↓
17:30 – 17:50	M. Matsuura [ALMA observations of SN 1987A – mixing, nucleosynthesis and dynamics of the ejecta]
17:50 – 18:10	K. A. Frank [A New Approach to X-ray Analysis of SNRs]
18:10 – 18:30	M. M. Schulreich [Assessing the link between recent SNe near Earth and the iron-60 anomaly in a deep-sea crust]
20:15	Buses depart from Minoa Palace Resort to Cabana Mare Beach Restaurant
20:30 – 00:30	Conference Banquet @ Cabana Mare Beach Restaurant
00:30	Buses depart from Cabana Mare Beach Restaurant to Minoa Palace Resort

Friday June 10

Session 9 [SN ejecta – abundances, clumpiness] & Session 10 [SNe and SNRs with circumstellar interactions]

Morning Session (Chair: L. Lopez / J. Raymond)

09:00 – 09:40	D. Milisavljevic [Deciphering the encoded debris of SNe]
09:40 – 10:00	M. Barlow [The dust masses in the remnants of Cas A, SN1993J and SN 1980K]
10:00 – 10:20	Y.-H. Lee [Near-Infrared Spectroscopic Study of SN Ejecta and SN Dust in Cassiopeia A]
10:20 – 10:40	J. Larsson [The ejecta of SN 1987A]
10:40 – 11:00	I. De Looze [The dust mass in Cassiopeia A]
11:00 – 11:30	Coffee Break & Poster Viewing
11:30 – 12:10	[S10] R. McCray [Supernova 1987A at 29 years]
12:10 – 12:30	↓ D. N. Burrows [The X-ray evolution of SNR 1987A]

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- 12:30 – 12:50 E. Dwek [Thirteen years of pummeling the circumstellar ring around SN1987A]
12:50 – 13:10 C. Kilpatrick [A Survey for Galactic SNR/Molecular Cloud Interactions Using Carbon Monoxide]
13:10 – 14:40 Lunch

Session 10 [SNe and SNRs with circumstellar interactions]

Afternoon Session (Chair: J. Raymond)

- 14:40 – 15:20 D. Patnaude [X-ray observations of SNRs as probes of progenitor evolution]
15:20 – 15:40 C. Black [A new distance determination to the Cygnus Loop]
15:40 – 16:00 A. Z. Bonanos [Probing the physics of bright SNe with high-cadence photometry]
16:00 – 16:20 S. Benetti [The spectacular evolution of SN 1996al over 15 years: a low energy explosion of a stripped massive star in a highly structured environment]
16:20 – 16:50 Coffee Break & Poster Viewing
16:50 – 17:10 P. Zhou [Discovery of an expanding molecular bubble surrounding Tycho's SNR (SN 1572): evidence for a single-degenerate progenitor]
17:10 – 17:30 A. Chiotellis [On the interaction of type Ia SNRs with planetary nebulae]
17:30 – 18:10 J. Vink (Closing Plenary) [SNR research: where do we stand today, and what will the future bring]
18:10 – 18:30 J. Raymond [Closing Remarks]

Saturday June 11

- 09:00 – 18:00 **Excursion#2: Full-day Boat trip to Gramvousa and Balos**
Buses depart/arrive from/to Minoa Palace Resort

END OF CONFERENCE



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	O. 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. Observations 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. W.-Y. 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 C.-Y. 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]

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|------|-------------|--|
| S7.1 | A. Asvarov | SNRs in the late stages of evolution |
| S7.2 | D. Huizenga | A Radio Selected Supernova Remnant Catalog in the Magellanic Clouds |
| S7.3 | D. Leahy | Supernova Remnant Explorer |
| S7.4 | D. Leahy | HI absorption spectra for Supernova Remnants in the VGPS survey |
| S7.5 | M. Sasaki | SNR-shock Impact on Star Formation |
| S7.6 | 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]

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|------|-------------|--|
| 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]

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| 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]

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|-------|------------|---|
| S10.1 | A. Alarie | Multispectral analysis of Cygnus Loop and IC 443 with iFITS |
| S10.2 | N. Bartel | Supernova research with VLBI |
| S10.3 | M. Bocchio | Dust grains from the heart of supernovae |

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S10.4	Y.-H. Chu	Type Ia Supernova Remnants in the Large Magellanic Cloud
S10.5	J. E. Drew	Exploiting IPHAS H-alpha imagery of supernova remnants
S10.6	É. Harvey	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	H.-G. Lee	Near-infrared IFU and MOS observations of supernova remnants
S10.10	Y.-H. 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	C. Fransson	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



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