

SUPERNOVA REMNANTS III

AN ODYSSEY IN SPACE AFTER STELLAR DEATH

9-15 June 2024, Chania, Crete, Greece



PROGRAM BOOK

Scientific Organizing Committee:

P. Boumis (Greece, co-chair)
P. Slane (USA, co-chair)
T. Janka (Germany)
B-C. Koo (S. Korea)
M. Lemoine-Goumand (France)
R. Margutti (USA)
S. Orlando (Italy)
J. Raymond (USA)
S. Safi-Harb (Canada)
T. Temim (USA)
H. Yamaguchi (Japan)
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Local Organizing Committee:

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S. Derlopa (Greece)
M. Zapartas (Greece)
M. Kalitsounaki (Greece)
M. Kopsacheili (Spain)
A. Koutromanou (Greece)
I. Leonidaki (Greece)
G. Munoz-Sanchez (Greece)
D. Souropanis (Greece)
K. Tsakanika (Greece)

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

A conference organized by the National Observatory of Athens, Greece

CONFERENCE PROGRAM

Sunday June 09

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

Monday June 10

07:45 – 08:30 Registration

Morning Session (Chairs: I. Leonidaki & D. Milisavljevic)

08:30 – 08:40 P. Boumis/P. Slane Welcome
08:40 – 09:15 R. Fesen (Opening Plenary) Recent advances in the X-Ray, radio, and optical regimes for the detection and study of Galactic and extragalactic SNRs

Session 1: Populations/Surveys and Classifications of SNRs & SNe

09:15 – 09:50 M. Sasaki SNR population in nearby galaxies
09:50 – 10:10 M. Filipovic The future is here! Diprotodon's, Potoroo's, Kyklos, ORC's and other new SNR wonders of radio surveys.
10:10 – 10:30 L. Jing Discovery of ~2200 new SNRs in 19 nearby star-forming galaxies using MUSE spectroscopy
10:30 – 10:50 M. Kopsacheili New larger sample of SNRs in NGC 7793, using MUSE IFS
10:50 – 11:00 1slide/1min 10 Poster Presentations - Session 1
11:00 – 11:30 **Coffee Break & Poster Viewing**
11:30 – 12:05 Y.-H. Chu Environmental effects on the LMC SNR population
12:05 – 12:25 F. Zangrandi eROSITA study of the LMC SNRs
12:25 – 12:45 C. Treyturik The Many Faces of Type Ia SNRs: what can X-ray observations tell us about their progenitors and explosion mechanism?
12:45 – 13:05 S. Loru The MeerKAT view on Galactic SNRs
13:05 – 14:30 **Lunch**

Afternoon Session (Chairs: T. Temim & N. Smith)

14:30 – 14:50 A. Rest Light echoes of an unknown SNR in 30 Doradus

Session 2: SNe and SNRs with Circumstellar Interactions

14:50 – 15:25	<u>P. Chandra</u>	Unveiling the progenitors of young supernova via their circumstellar interaction
15:25 – 15:45	E. Beasor	A JWST view of the failed SN candidate N6946-BH1
15:45 – 16:05	A. Pazhayath Ravi	Latest evolution of the X-Ray remnant of SN 1987A: beyond the inner ring
16:05 – 16:20	1slide/1min	15 Poster Presentations - Sessions 1 & 2
16:20 – 16:50	Coffee Break & Poster Viewing	
16:50 – 17:10	S. Derlopa	SNR IC443 - morphology and kinematics of the "Jellyfish nebula" in three dimensions
17:10 – 17:30	Y. Inoue	Toward understanding the progenitor channels to SNe Ibn/Icn: X-ray modeling of their SN-CSM interaction
17:30 – 17:50	R. Chornock	Multiwavelength observations of old stripped-envelope Supernovae
17:50 – 18:10	M. Shrestha	Polarization signature showing an elevated and asymmetric mass loss from the progenitor of SN2023ixf prior to the explosion
18:10 – 18:30	1slide/1min	20 Poster Presentations - Sessions 2 & 3
18:30 – 19:00	Poster Viewing	

Tuesday June 11

Morning Session (Chairs: S. Orlando & J. Vink)

Session 2: SNe and SNRs with Circumstellar Interactions

09:00 – 09:35	<u>A. Chiotellis</u>	On the interaction of SNRs with their CS medium: evolution, properties and progenitors imprints
09:35 – 09:55	H. Lee	Broadband non-thermal emission as an effective probe of progenitor origins of core-collapse SNRs
09:55 – 10:15	L. Dessart	Radiative transfer models for 1-10yr-old SNe: influence of interaction power, magnetar power, and dust

Session 3: SN/SNR Progenitors, Central Engines, Explosion Models

10:15 – 10:35	J. Raymond	What will Eta Car look like in 2 thousand years?
10:35 – 10:55	G. Ferrand	Typing thermonuclear explosions from observations of young supernova remnants
10:55 – 11:00	1slide/1min	5 Poster Presentations - Session 3
11:00 – 11:30	Coffee Break & Poster Viewing	

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11:30 – 12:05	<u>C. Fryer</u>	Supernova Remnants as probes of the core-collapse Supernova engine and its progenitors
12:05 – 12:25	C. Ashall	Using JWST to observe supernovae from days to years past explosion
12:25 – 12:45	A. Chrimes	New insights into the Galactic magnetar population
12:45 – 13:05	M. Miceli	Collimated Fe-rich ejecta in the magnetar-hosting supernova remnant Kes 73
13:05 – 14:30	Lunch	

Afternoon Session (Chairs: O. Kargaltsev & A. Bonanos)

14:30 – 15:05	<u>N. Smith</u>	Massive star progenitors of SNe and SN remnants with strong CSM interaction
15:05 – 15:25	M. Gabler	3D long-term evolution of CCSN: connecting explosive dynamics to electromagnetic observations
15:25 – 15:45	M. Zapartas	The population of binary companions next to stripped-envelope core-collapse supernovae
15:45 – 16:05	D. Kresse	Post-explosion hydrodynamics in 3D neutrino-driven Supernova models
16:05 – 16:20	1slide/1min	15 Poster Presentations - Session 3
16:20 – 16:50	Coffee Break & Poster Viewing	
16:50 – 17:10	S. Kumar	Near-infrared spectroscopy of SNe Ia at nebular phases
17:10 – 17:30	K. Antoniadis	Establishing a mass-loss rate relation for Red Supergiants

Session 4: SNR Structure, Ejecta and Evolution

17:30 – 17:50	B. Williams	XRISM mission status and observations of the LMC SNR N132D
17:50 – 18:10	T. Holland-Ashford	Measuring ejecta mass ratios in Kepler's SNR to constrain its origin
18:10 – 18:30	1slide/1min	20 Poster Presentations – Sessions 3 & 4
18:30 – 19:00	Poster Viewing	

Wednesday June 12

Morning Session (Chairs: R. Margutti & R. Fesen)

Session 4: SNR Structure, Ejecta and Evolution

09:00 – 09:35	<u>D. Milisavljevic</u>	Deciphering SNR structure and evolution
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SUPERNOVA REMNANTS III: AN ODYSSEY IN SPACE AFTER STELLAR DEATH

09:35 – 09:55	T. Temim	A JWST view of the Crab nebula
09:55 – 10:15	P. Plucinsky	XRISM observations of Cassiopeia A
10:15 – 10:35	S. Orlando	Interpreting JWST observations of Cassiopeia A through 3D MHD modeling
10:35 – 10:55	R. Wesson	3D mapping of the ejecta of SN1987A with ALMA
10:55 – 11:00	1slide/1min	5 Poster Presentations - Session 4
11:00 – 11:30	Coffee Break & Poster Viewing	
11:30 – 12:05	<u>J. Larsson</u>	SN 1987A in the JWST era — compact object, ejecta structure and CSM interaction

Session 5: Shock Physics, Particle Acceleration, Polarization in SNRs and PWNe

12:05 – 12:40	<u>J. Vink</u>	X-ray polarimetry of supernova remnants with IXPE: puzzling magnetic-field geometries and high levels of downstream turbulence
12:40 – 13:00	R. Bandiera	Synchrotron polarization with a partially random magnetic field: general theory, and applications to IXPE observations of young SNRs
13:00 – 13:20	M. Matsuura	JWST NIRCcam observations of Supernova 1987A – shocks, synchrotron and dust
13:20 – 13:40	O. Petruk	Evolution of magnetic field structure in SN1987A
13:40 – 14:00	Conference Photo	
15:15 – 22:30	Excursion #1: Tour to Dourakis winery & to Rethymno City	
15:15	Buses depart from Minoa Palace Resort	
22:30	Buses arrive to Minoa Palace Resort	

Thursday June 13

Morning Session (Chairs: J. Raymond & R. Kothes)

Session 5: Shock Physics, Particle Acceleration, Polarization in SNRs and PWNe

09:00 – 09:35	<u>N. Bucciantini</u>	PWNe in the light of the new IXPE observations: putting our understanding to the test
09:35 – 09:55	D. Caprioli	Particle acceleration at SNR shocks: bridging simulations and observations
09:55 – 10:15	P. Ghavamian	Electron-ion equilibration and cosmic-ray acceleration in two Balmer-dominated SNRs
10:15 – 10:35	G. Morlino	Acceleration and release of electrons from SNRs
10:35 – 10:55	R. Diesing	SNRs in their golden years: predicting the bright, nonthermal signatures of radiative shocks

SUPERNOVA REMNANTS III: AN ODYSSEY IN SPACE AFTER STELLAR DEATH

10:55 – 11:00 1slide/1min 5 Poster Presentations – Sessions 4 & 5

11:00 – 11:30 **Coffee Break & Poster Viewing**

11:30 – 11:50 H. Sano Shock-cloud interactions in Supernova
Remnants revealed by ALMA

Session 6: SN/SNR dust, environments, feedback

11:50 – 12:25 I. De Looze SN dust formation and destruction in the JWST era

12:25 – 12:45 M. Shahbandeh Unraveling cosmic dust origins: JWST
revelations from Supernovae

12:45 – 13:05 E. Dwek The attenuated emission model for the late-time
JWST spectrum of SN2010jl

13:05 – 14:30 **Lunch**

Afternoon Session (Chairs: M. Lemoine-Goumand & J. Larsson)

14:30 – 15:05 B.-W. Jiang The extinction distances to Supernova Remnants
and the dust properties

15:05 – 15:25 F. Kirchschrager Dust destruction by the reverse shock in
clumpy supernova remnants

15:25 – 15:45 T. Szalai Populating the gap in dust-formation history of
Type II(P) Supernovae with JWST

15:45 – 16:05 A. Sarangi Modeling dust formation in Supernovae

16:05 – 16:20 1slide/1min 15 Poster Presentations - Sessions 5 & 6

16:20 – 16:50 **Coffee Break & Poster Viewing**

16:50 – 17:10 J. Shimoda The effects of escaping cosmic-rays from
Supernova Remnants in the interstellar medium

**Session 7: PWN Diversity; Structures, Bowshocks and Magnetar
Wind Nebulae**

17:10 – 17:45 R. Kothes A Radio Eye on Pulsar Wind Nebulae

17:45 – 18:05 M. Arias The Crab nebula at 150 MHz and sub-arcsecond
resolution with the LOFAR long baselines

18:05 – 18:30 1slide/1min 25 Poster Presentations - Sessions 6, 7, 8 & 9

20:15 Buses depart from Minoa Palace Resort to Almira beach bar
& restaurant

20:30 – 00:00 **Conference Banquet @ Almira beach bar & restaurant**

00:15 Buses depart from Almira beach bar & restaurant to Minoa
Palace Resort

Friday June 14

Morning Session (Chairs: P. Slane & N. Bucciantini)

Session 7: PWN Diversity; Structures, Bowshocks and Magnetar Wind Nebulae

09:00 – 09:35	<u>O. Kargaltsev</u>	Pulsar Wind Nebulae in X-rays: Population Properties, Outstanding Results, and Open Questions
09:35 – 09:55	S. Lazarevic	Discovery of bow-shock Pulsar Wind Nebulae in new generation radio continuum surveys
09:55 – 10:15	P.-S. Ou	Structure of the Pulsar Wind Nebula in SNR 0540-69.3 Revealed by ALMA
10:15 – 10:35	L. Tenhu	Spatial variations and breaks in the optical-NIR spectra of the pulsar and PWN in SNR 0540-69.3

Session 8: SNRs and PWNe as PeVatrons

10:35 – 10:55	E. Simon	Maximum energy cosmic-rays from Galactic SNe: simulations of quasi-parallel and -perpendicular shocks
10:55 – 11:00	Best PhD poster award	
11:00 – 11:30	Coffee Break & Poster Viewing	
11:30 – 12:05	<u>F. Acero</u>	The what, where, and who of Galactic PeVatrons as probed by high-energy observations
12:05 – 12:25	R. Yang	LHAASO observations on the SNR Cassiopeia A
12:25 – 12:45	I. Sushch	SNRs in stellar clusters: particle acceleration
12:45 – 13:05	M. Lemoine-Goumard	Hadronic particle acceleration in the SNR SN 1006 as traced by Fermi-LAT observations
13:05 – 14:30	Lunch	

Afternoon Session (Chair: S. Safi-Harb)

14:30 – 15:05	<u>K. Mori</u>	Multi-wavelength observations of Galactic PeVatrons
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Session 9: SNR/PWN/Compact Objects Associations, Interaction and Evolution

15:05 – 15:40	<u>S. Katsuda</u>	High-resolution X-Ray spectroscopy of Supernova Remnants: from dispersive spectrometers to microcalorimeters
15:40 – 16:00	E. Greco	New constraints on the Pulsar Wind Nebula in SN 1987A from multiwavelength observations and MHD modeling
16:00 – 16:20	D. Torres	Pulsar Wind Nebulae phenomenology and evolution at and beyond reverberation
16:20 – 16:50	Coffee Break & Poster Viewing	
16:50 – 17:25	<u>A. Borghese</u>	The zoo of isolated neutron stars
17:25 – 17:45	T. Kravtsov	Discovery of new oxygen-rich supernova remnants
17:45 – 18:00	P. Slane	Closing Remarks

Saturday June 15

08:30 – 18:30 **Excursion#2: Full-day excursion to Anoskeli winery & olive mill and to Paleochora, the "Libyan Bride"**

Buses depart/arrive from/to Minoa Palace

END OF CONFERENCE



CONFERENCE POSTERS

Session 1: Populations/Surveys and Classifications of SNRs and SNe

S1.1	F. Bocchino	GalRSG: A long-term monitoring campaign of Galactic Red Supergiants and the quest for SN explosions' premonitory signs
S1.2	F. Bocchino	Search for Gamma-ray emission from SNRs in the Large Magellanic Cloud: Preliminary results of a new cluster analysis at energies above 3GeV
S1.3	C. Burger-Scheidlin	Gamma-ray detection of newly discovered Ancora supernova remnant: G288.8-6.3
S1.4	A. Castrillo	Supernova remnant catalog in the PHANGS survey
S1.5	M. Filipovic	Mysterious Odd Radio Circle near the Large Magellanic Cloud - An Intergalactic Supernova Remnant?
S1.6	B. Gamache	Characterization of M51 supernovae remnants with the imaging spectrometer SITELE
S1.7	D. A. Green	Statistics of Galactic Supernova Remnants
S1.8	A. Ingallinera	Studying SNRs and their environment with high-resolution radio spectral index maps
S1.9	A. Khokhriakova	SNR G321.3-3.9 observed with multi-band radio data and SRG/eROSITA
S1.10	I. Leonidaki	Disentangling the evolutionary paths of Supernova Remnants: observational evidence of (non) multi-wavelength emission
S1.11	I. Leonidaki	A systematic meta-analysis of physical parameters of Galactic SNRs
S1.12	T.-X. Luo	Investigation of Galactic supernova remnants and their environment in $26.6^\circ < l < 30.6^\circ$, $ b \leq 1.25^\circ$ using radio survey
S1.13	S. Mantovanini	Low radio frequency images of the southern Galactic plane for supernova remnant detection
S1.14	M. Michailidis	X-ray counterpart detection and gamma-ray analysis of the SNR G279.0+01.1 with eROSITA and Fermi-LAT
S1.15	R. Kothes	An L-band Panoramic View of Galactic Supernova Remnants with the Australian SKA Pathfinder
S1.16	S. Panjkov	The Effects of Metallicity on the LMC Core-Collapse Progenitor Mass Distribution
S1.17	N. O. Pinciroli Vago	DeepGraviLens: a multi-modal architecture for classifying gravitational lensing data
S1.18	Z. Smeaton	Discovery of new, young Galactic SNR (G329.9-0.5)

Session 2: SNe and SNRs with Circumstellar Interactions

S2.1	M. Arias	Probing supernova remnant VRO 42.05.01's progenitor properties with IRAM 30m observations
S2.2	R. Baer-Way	A multi-wavelength autopsy of a young interacting supernova to unveil its progenitor
S2.3	M. Chatzopoulos	Radiative Transfer Modeling of Astrophysical Transients Powered by Circumstellar Interaction
S2.4	W.-Y. Chen	Multidimensional Radiation Hydrodynamics Simulations of Supernova 1987a Shock Breakout
S2.5	W.-Y. Chen	2D Rad-Hydro Shock Breakout Simulations on RSG with CSM

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S2.6	A. Chrimes	Clues (and conundrums) from the circumstellar media around extreme extragalactic transients
S2.7	T. Court	Type Ia Supernova Remnants in Different Circumstellar Environments
S2.8	J. Horvat	An XMM-Newton study of several nonradiative filaments in the northeastern rim of the Cygnus Loop
S2.9	M. Ichihashi	The thermal relaxation process in collisionless shock of SN1006
S2.10	W. Jacobson-Galan	Final Moments: Observational Properties and Physical Modeling of “Flash Spectroscopy” Supernovae
S2.11	B. Liu	Investigation into SNR-accelerated CRs at the prospect of future MeV gamma-ray detectors
S2.12	L.-D. Liu	Light curves of Multiple Ejecta-circumstellar Medium Interactions
S2.13	E. Makarenko	How do supernova remnants cool? Morphology and optical emission lines
S2.14	M. Matsuura	Infrared emission of supernova remnants in the Small Magellanic Cloud
S2.15	A. Mercuri	Spectral Analysis of Chandra data on selected regions of the Supernova Remnant Cassiopeia A
S2.16	T. Murase	Molecular Clouds associated with middle-aged gamma-ray Supernova Remnants W41 and G22.7-0.2
S2.17	A. Nagy	How can circumstellar interaction explain the special light curve features of Type Ib/c supernovae?
S2.18	S. Orlando	Constraining the CSM structure and progenitor mass-loss history of SN 2014C through 3D hydrodynamic modeling
S2.19	B. H. Pál	A possible circumstellar interaction of SN2004gq
S2.20	O. Petruk	Density and magnetic field gradients in Tycho SNR
S2.21	G. Prete	Interaction of a Supernova Remnant with background interstellar turbulence
S2.22	L. Sun	Probe charge exchange and resonant scattering in Magellanic Cloud supernova remnants with spatially-resolved high-resolution X-ray spectroscopic study of oxygen lines
S2.23	I. Sushch	Role of reflected shocks in particle acceleration in supernova remnants
S2.24	A. Suzuki	Multi-dimensional simulations of interaction-powered supernovae
S2.25	H. Suzuki	Global and Rapid Deceleration of X-Ray Knots and Rims of RCW 103
S2.26	K. Tsuge	Shocked Molecular Clouds in the LMC SNR N132D Revealed by ALMA ACA
S2.27	S. Ustamujic	Modeling the mixed-morphology supernova remnant VRO 42.05.01

Session 3: SN/SNR Progenitors, Central Engines, Explosion Models

S3.1	E. Abdikamalov	Exploring supernova gravitational waves with machine learning
S3.2	M. Anazawa	Estimation of progenitor of Keplers SNR with precision X-ray spectroscopic analysis
S3.3	B. Arbutina	Modeling Binary Systems That Survive Supernova Explosions and Give Rise to Gravitational Waves
S3.4	B. Barna	Different, but still same: on the common(?) origin of the peculiar Type Iax SNe

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S3.5	E. Batziou	The Long-time Evolution of Accretion-Induced Collapse of White Dwarfs to Neutron Stars
S3.6	Z. R. Bodola	Massive Progenitor Parade of Stripped-Envelope Supernovae
S3.7	A. Z. Bonanos	Evidence for episodic mass loss in red supergiants from the ASSESS project
S3.8	K. A. Bostroem	Considering the Single and Binary Origins of the Type IIP SN 2017eaw
S3.9	M. Bugli	Numerical models of magneto-rotational supernovae: dynamics, multi-messenger signals, and explosive nucleosynthesis
S3.10	M. Bugli	3D MHD core-collapse supernovae code comparison: the impact of numerics on central engine's simulations
S3.11	E. Christodoulou	Obtaining accurate parameters of Type IIP progenitors in NGC 6822, IC 10 & WLM
S3.12	L. Dang	Typing supernova remnant G352.7-0.1 using XMM-Newton X-ray observations
S3.13	B. Dinçel	Possible pre-supernova binary companion to the progenitor of the supernova remnant IC 443
S3.14	O. Eggenberger Andersen	Black Hole Supernovae and their Equation-of-state Dependence
S3.15	J. I. Gonzalez-Hernandez	Searching for surviving stellar companions of historical galactic type Ia supernovae
S3.16	A. Holas	Electron-capture supernovae - Thermonuclear explosion or gravitational collapse? - The fate of sAGB stars on a knife's edge
S3.17	C. M. Irwin	An unexplored regime of shock breakout: the effect of rapid thermalization on the observed spectrum
S3.18	M. Kalitsounaki	Discovery of an extreme Red Supergiant in the LMC transitioning to a Blue Supergiant
S3.19	E. Kasdagli	Improving Supernova Prescriptions in Binary Population Synthesis Using Detailed Stellar Profiles
S3.20	J. Luo	3D Simulation of SN~Ia SNR: Effects of Companion Star and Progenitor System
S3.21	K. Matsunaga	Formation of Mg-rich SNRs by shell merger and its effect on the explodability
S3.22	G. Munoz-Sanchez	[W60] B90: a mass-losing luminous RSG in the LMC interacting with the CSM
S3.23	T. Narita	Progenitor constraint with CNO abundances of circumstellar material in supernova remnants
S3.24	Z. Niu	The binary progenitor for Type IIP supernovae
S3.25	C. Omand	Probing Energetic Infant Pulsars with Supernova Emission Lines
S3.26	K.-C. Pan	Stellar Mass Black Hole Formation and Multimessenger Signals from Core-collapse Supernova Simulations
S3.27	G. Pignata	Three years observations of the nearby type II SN2008bk
S3.28	A. Rest	The Historic Light Curve of Eta Car's Great Eruption from its Light Echoes
S3.29	P. Ruiz-Lapuente	SN Ia supernova remnant with M dwarf companions
S3.30	R. Sawada	' ⁵⁶ Ni problem' in Canonical Supernova Explosion
S3.31	M. Shahbandeh	The Life Story of Stripped-Envelope Supernovae as told through JWST Observations
S3.32	M. Solar	Binary progenitor systems for Type Ic supernovae
S3.33	T. Tanaka	Expansion Measurements of Tycho's Supernova Remnant and Their Implications of the Progenitor System

- S3.34 H. Uchida Possible evidence of a jet-induced explosion found from X-ray and radio observations of a peculiar SNR G0.61+0.01
- S3.35 J. Weng Upper Limits of ^{44}Ti Decay Emission in Four Nearby Thermonuclear Supernova Remnants

Session 4: SNR Structure, Ejecta and Evolution

- S4.1 M. Agarwal X-ray diagnostics of Cassiopeia A's "Green Monster": evidence for dense shocked circumstellar plasma
- S4.2 S. Akras Spectroscopic analysis tool for intEgraL fieLd unIt daTacubEs (SATELLITE): The case of SNR 0509-68.7
- S4.3 M. Andelić On the origin of the North Polar Spur
- S4.4 Y. Chen A Monte-Carlo Simulation on Resonant Scattering of X-ray Line Emission in Supernova Remnants
- S4.5 Y.-H. Chi Thermal X-ray Emission in the Western Half of the LMC Superbubble 30 Dor C
- S4.6 P. Das Observational Study of the Reversed Shocked Ejecta in SNR 0509-67.5
- S4.7 D. Dickinson High Resolution Mapping of the Unshocked Ejecta in Cassiopeia A
- S4.8 M. Fontaine Theoretical and Experimental Simulations of Colliding Blast Waves
- S4.9 B. Giudici Hydrodynamic instabilities in three-dimensional simulations of neutrino-driven CCSNe from red supergiant progenitors
- S4.10 R. Giuffrida Measuring the initial mass of ^{44}Ti in SN 1987A through the ^{44}Sc emission line
- S4.11 L. Godinaud Mapping the 3D dynamics and spectral properties of Tycho's SNR in X-rays
- S4.12 T. Ko The multi-layer structure of SNR 1181 with a white dwarf in its center
- S4.13 B.-C. Koo JWST Observations of the Cassiopeia A Supernova Remnant: Near-Infrared Colors of Supernova Ejecta
- S4.14 D. Leahy On emission measures and element densities and masses inferred from XSPEC
- S4.15 D. Leahy Models for supernova remnants with reverse shock emission
- S4.16 E. Makarenko Thermal X-ray emission from supernova remnants in 3D (M)HD simulations
- S4.17 S. Mandal Measurement of anisotropies in observed Supernova Remnants and their interpretation using hydrodynamical models
- S4.18 M. Ono Molecular formation in the ejecta of SN 1987A based on three-dimensional hydrodynamical models
- S4.19 S. Panjkov Morphological Insights into the SN progenitors of the Small Magellanic Cloud
- S4.20 G. Payli Investigation of supernova remnant IC 443 and G189.6+3.3 with LAMOST
- S4.21 L. Romano Cloud Formation by Supernova Implosion
- S4.22 V. Sapienza Probing Shocked Ejecta in SN 1987A: A novel diagnostic approach using XRISM-Resolve
- S4.23 N. Sanches Sartorio New Analytical Solutions for Supernova Shocks
- S4.24 L. Sun Evolution of X-ray Gas in SN 1987A from 2007 to 2021: Ring Fading and Ejecta Brightening Unveiled through Differential Emission Measure Analysis

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S4.25	J. C. Toledo-Roy	Simulated non-thermal emission of the supernova remnant G1.9+0.3
S4.26	D. Urošević	A method for determination of evolutionary status of supernova remnants from radio data
S4.27	B. van Baal	Nebular Phase Stripped Envelope Supernovae in 3D
S4.28	K. Vargas Rojas	Study of non-thermal emission of Kepler's SNR with MHD numerical simulations.

Session 5: Shock Physics, Particle Acceleration, Polarization in SNRs and PWNe

S5.1	F. Acero	How I learned to stop trusting my X-ray spectral best fits and love nested sampling
S5.2	B. Ball	Radio Polarization Studies of Galactic Supernova Remnants with ASKAP
S5.3	D. Castro	The Expansion and Width of the Synchrotron Filaments Associated with the Forward Shocks of SNRs
S5.4	L. Del Zanna	Relativistic MHD turbulence simulations and synchrotron polarization properties of Pulsar Wind Nebulae
S5.5	R. Ferrazzoli	Discovery of a shock-compressed magnetic field in the NW rim of the young SNR RX J1713.7-3946 with X-ray polarimetry
S5.6	R. Giuffrida	Evidence for proton acceleration and escape from the Puppis A SNR using Fermi-LAT observations
S5.7	E. Greco	Jitter radiation as an alternative mechanism for the nonthermal emission in Cassiopeia A
S5.8	J. Hewitt	Resolving the gamma-ray supernova remnant IC 443 with Fermi LAT and VERITAS
S5.9	J. Hewitt	Two new radio-dim, gamma-ray-bright supernova remnants
S5.10	S. Knežević	Shock geometry and physics in the supernova remnant SNR 0509-67.5
S5.11	P. Kostić	Kinetic-based CFD modeling of synchrotron emission spectra at fast SNRs
S5.12	Y. Ohshiro	A self-consistent model of shock-heated plasma in non-equilibrium states for direct parameter constraints from X-ray observations
S5.13	V. Sapienza	Time evolution of the synchrotron X-ray emission in Kepler's SNR: the effects of turbulence and shock velocity
S5.14	X. Shi	The production of unstable cosmic-ray isotopes in supernovae clusters
S5.15	J. D. Slavin	Modeling Shock Emission Including Dust Destruction
S5.16	K. Stasiewicz	Reinterpretation of the Fermi acceleration of cosmic rays in terms of the ballistic surfing acceleration in supernova shocks
S5.17	S. J. Tanaka	A Self-regulated Stochastic Acceleration Model of Pulsar Wind Nebulae
S5.18	D. Tateishi	Suzaku/XIS study of the acceleration environment of bilateral SNR RX J0852.0-4622
S5.19	S. Ustamujic	Modeling the supernova remnant RX J1713.7 – 3946: particle acceleration, gamma-ray emission, and neutrino flux

Session 6: SN/SNR dust, environments, feedback

S6.1	N. Izumi	CI/CO abundance ratio of shock-excited gas in the Magellanic Supernova Remnant N63A
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SUPERNOVA REMNANTS III: AN ODYSSEY IN SPACE AFTER STELLAR DEATH

S6.2	F. Kirchschrager	Dust destruction in the clumpy remnant Cassiopeia A: impact of inhomogeneous dust distributions
S6.3	N. Sanches Sartorio	The impact of CSM properties on the dust destruction by supernovae forward shocks
S6.4	H. Sano	ALMA Observations of Supernova Remnant N49 in the Large Magellanic Cloud. II. Non-LTE Analysis of Shock-heated Molecular Clouds
S6.5	T. Scheffler	Dust destruction by supernova remnant forward shocks in a turbulent interstellar medium
S6.6	A. Singleton	Constraining the progenitor properties of the Type Ib supernova iPTF13bvn through its environment with HST and MUSE
S6.7	D. Souropanis	Time-dependent feedback of core-collapse supernovae from binary progenitors via detailed binary population synthesis models
S6.8	T. Tu	A Yebes W band Line Survey towards an Unshocked Molecular Cloud of Supernova Remnant 3C391: Evidence of Cosmic-Ray-Induced Chemistry
S6.9	R. Wesson	The slow formation of dust by core collapse supernovae
S6.10	M. Zhang	Not gone with the wind: survival of high-velocity molecular clouds in the Galactic Centre
S6.11	Q. Zhang	A molecular line survey toward clumps G and E in supernova remnant IC 443 with the Submillimeter Array
S6.12	Z. Zhang	Estimation of the Dust Mass with Infrared Emission and Extinction of the Supernova Remnants: G156.2+5.7, G109.1-1.0, G166.0+4.3, G93.7-0.2
S6.13	S. Zsíros	Disentangling possible dust components of core-collapse supernovae within a Bayesian framework

Session 7: PWN Diversity; Structures, Bowshocks and Magnetar Wind Nebulae

S7.1	J. Alford	Cosmic Ray Leptons Escaping from CTA 1?
S7.2	Y. Chen	“Mirage” and large offsets in the data as a result of asymmetric CR diffusion
S7.3	L. V. da Conceição	Using CFHT’s SHELLE to probe the long-sought shell in the Crab nebula
S7.4	S. Gagnon	Chandra X-ray Observations of PSR J1849-0001 and its Pulsar Wind Nebula
S7.5	X. Li	An Exploration of Misaligned Outflows in Pulsar Wind Nebulae
S7.6	S. Mandal	Diagnosis of Pulsar Wind Nebula dynamics using their filamentary structure
S7.7	K. Yan	Pulsar halos as an origin of the Galactic diffuse TeV-PeV emission: Insight from LHAASO and IceCube

Session 8: SNRs and PWNe as PeVatrons

S8.1	R. Brose	Fast Blue Optical Transients as cosmic-ray sources
S8.2	R. Diesing	The Maximum Energy of Shock-Accelerated Cosmic Rays
S8.3	Y. Gallant	Pulsar Wind Nebulae and their halos observed in TeV and PeV gamma rays
S8.4	S. Lazarevic	Radio-continuum view of PeVatrons
S8.5	Y. Li	Multi-Messenger Modeling of the Monogem Pulsar Halo
S8.6	B. Mac Intyre	The Manatee Nebula W50-SS433: a Galactic PeVatron?

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| S8.7 | I. Sander | Pulsar Wind Nebulae and PeVatrons: A Case Study of PWN G309.92-2.51 |
| S8.8 | N. Tsuji | Search for molecular clouds associated with PeVatrons by the Nobeyama 45-m radio telescope: the case of LHAASO J0341+5258 |
| S8.9 | J. Woo | Revisiting Cassiopeia A after a decade: the first spatially resolved synchrotron X-ray variability above 15 keV by NuSTAR |

Session 9: SNR/PWN/Compact Objects Associations, Interaction and Evolution

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| S9.1 | J. Ahlwind | Late-time X-ray observations Core-Collapse Supernovae - constraints on emission from compact objects and CSM interaction |
| S9.2 | A. M. Moaz | Multi-Wavelength Modelling of the Pulsar Wind Nebulae Kes 75 & HESS J1640-465 |
| S9.3 | J. Suherli | A-MUSE-ing Views of the Central Environment of the Vela Jr. and 1E0102-72.3 Supernova Remnants |



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