

SUPERNOVA REMNANTS II

AN ODYSSEY IN SPACE AFTER STELLAR DEATH

3-8 June 2019, Chania, Crete, Greece



POSTERS BOOK

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

A conference organized by the National Observatory of Athens, Greece

CONFERENCE POSTERS

Session 1: Observations and Classifications of SNe and SNRs

S1.1	C. Braun	An X-ray Imaging and Spectroscopic Study of the Supernova Remnant RCW 103 Using Chandra and XMM-Newton
S1.2	J. Devin	Fermi-LAT observations of the surprising SNR G150.3+4.5
S1.3	R. Fesen	Discovery of Extensive Optical Emission from the Extremely Radio Faint Galactic Supernova Remnant G182.4+4.3
S1.4	M. Filipovic	Supernova Remnants in the Multi-Messenger Era
S1.5	V. Fragkou	Deep Optical Study of the Supernova Remnant G132.7+1.3
S1.6	D. Green	An updated catalogue of Galactic SNRs and some statistics
S1.7	É. J Harvey	Supernovae with the New Robotic Telescope
S1.8	N. Hurley-Walker	Galactic and Extragalactic All-sky MWA Survey - eXtended
S1.9	A. Ingallinera	ASKAP observations of known and new Galactic SNRs
S1.10	P. Kostić	Test observations of galactic supernova remnant G67.7+1.8 with 1.4m telescope Milanković at Astronomical Station Vidojevica, Serbia
S1.11	J. A. Kypriotakis	Mapping the Physical Properties of Supernova Remnants in our Galaxy
S1.12	C. D.-J. Lin	Searching for Balmer-Dominated Type Ia SNRs in M33
S1.13	D. Milisavljevic	Evidence for a Pulsar Wind Nebula in the Type Ib Peculiar Supernova SN 2012au
S1.14	I. Moumen	3D Optical Spectroscopic Study of NGC 3344 with SITELLE: I. Identification and Confirmation of Supernova Remnants
S1.15	D. Onic	Revealing the radio continuum and X-ray properties of the Galactic supernova remnant G5.9+3.1 with Murchison Widefield Array and XMM-Newton
S1.16	P.-S. Ou	Structures of M33 Supernova Remnants Revealed by Broad-Band HST Images
S1.17	E. Paraskeva	Early high-cadence monitoring of supernovae: key to identifying the progenitors
S1.18	A. Rest	Light Echoes of Ancient Transients
S1.19	A. M. Ritchey	Physical Conditions in Shocked Interstellar Gas Interacting with the Supernova Remnant IC 443
S1.20	M. Rosado	Optical counterparts of Galactic Supernova Remnants and their kinematic distances
S1.21	S. Safi-Harb	A New Version of SNRcat: the High Energy Catalogue of Supernova Remnants
S1.22	Z. Spetsieri	Supernovae, transients and high amplitude variables in the Hubble Catalog of Variables
S1.23	K. E. Weil	The Cygnus Loop's Distance, Properties & Environment Driven Morphology
S1.24	J. West	G182.5-4.0: A new supernova remnant near the Crab nebula

- S1.25 P. Zhou Asymmetric Type-Ia supernova origin of W49B as revealed from spatially resolved X-ray spectroscopic study

Session 2: SN/SNR Progenitors: Models and Observations

- S2.1 J. Anderson The lowest metallicity type II supernova from the highest mass red supergiant progenitor
- S2.2 B. Barna Spectral signs of ^{56}Ni in the outer ejecta of SNe Ia
- S2.3 F. Bocchino A Virtual Reality environment for scientific exploitation of 3D MHD Astrophysical Simulations
- S2.4 P. Chandra Electron Cyclotron Maser Emission revealed in magnetic massive stars
- S2.5 C.-H. Chen Searching for Fast Runaway Massive Stars in Core-Collapse SNRs in the LMC
- S2.6 M. Diaz-Rodriguez Progenitor Mass Distribution for Core-Collapse Supernova Remnants
- S2.7 J. I. Gonzalez-Hernandez Searching for stellar companions of Galactic type-Ia Supernovae with HST and Gaia
- S2.8 T. Jacovich A Grid of Core Collapse Supernova Remnant Models Evolved from Massive Progenitors
- S2.9 J. Kuuttila Excluding SSSs as progenitors for four Type Ia supernovae in the LMC
- S2.10 S.-H. Lee Cradle-to-grave models for core-collapse supernova remnants and machine learning
- S2.11 C.-J. Li Searching for Surviving Companions of Type Ia SNe in Five Balmer-Dominated SNRs in the LMC
- S2.12 W. Li Constraints on the ejecta properties of SN 2018oh with early excess emission from K2 Observation
- S2.13 G. Maravelias Identifying massive stars in nearby galaxies, in a smart way
- S2.14 P.-S. Ou Is There a Critical Metallicity of Mass Loss in Massive Star Evolution?
- S2.15 R. Ouchi Constraining massive star activities in the final years through properties of supernovae and their progenitors
- S2.16 L. Sun Spatially Resolved X-Ray Spectroscopy of Kepler's Supernova Remnant: Distinct Properties of the Circumstellar Medium and the Ejecta
- S2.17 A. Tutone 3D MHD simulations from the onset of the SN to the full-fledged SNR: role of ejecta clumps on matter mixing
- S2.18 A. Yalinewich The Signature of a Windy Radio Supernova Progenitor in a Binary System
- S2.19 M. Yang Evolved Massive Stars at Low-metallicity: A Source Catalog for the Small Magellanic Cloud

Session 3: Supernova Explosion Mechanisms

S3.1	D. Alp	X-Ray and Gamma-Ray Emission from 3D Neutrino-Driven SN Simulations and Comparisons With Observations of SN 1987A
S3.2	C. Fryer	Radioactive Isotopes in Core-Collapse Remnants
S3.3	F. Lach	Type Iax Supernovae from Deflagrations of Chandrasekhar Mass White Dwarfs
S3.4	S. Nagataki	From the (thermonuclear) supernova to the supernova remnant
S3.5	T. Takiwaki	Simulation of an Ultra-stripped Type Ic Supernova

Session 4: Shock Physics and Particle Acceleration in SNRs

S4.1	F. Acero	Understanding gamma-ray emission of RX J1713.7-3946
S4.2	F. Acero	Beyond the non-thermal emission of RX J1713.7-3946: first results from the XMM-Newton Large Program
S4.3	B. Arbutina	Non-linear diffusive shock acceleration: A recipe for electron injection
S4.4	A. Bohdan	Physics of nonrelativistic perpendicular shocks of young supernova remnants: electron injection, energy redistribution and magnetic turbulences
S4.5	P. Dell'Ova	Stellar and interstellar content of the region interacting with cosmic rays in IC443G
S4.6	V. Domček	Synchrotron radiation in Cas A: the non-linear connection
S4.7	P. Kostić	Hydrodynamical simulations of supernova remnant in fractal interstellar medium: morphology of the shock-wave
S4.8	M. Lemoine-Goumard	Efficient particle acceleration from HESS J1640.6-4633 and the PeVatron candidate HESS J1641.0-4619
S4.9	N. Maxted	The gas structure towards supernova remnants suspected of cosmic-ray acceleration
S4.10	M. Pais	Constraining the coherence scale of the interstellar magnetic field using TeV gamma-ray observations of supernova remnants
S4.11	A. Pellizzoni	Challenging electron populations, magnetic fields and acceleration models in Supernova Remnants shocks through high-frequency single-dish radio observations
S4.12	H. Sano	Shock-cloud interactions in young gamma-ray supernova remnants: Evidence for cosmic-ray acceleration
S4.13	J. Shimoda	Polarized Balmer line emission from SNR shocks: on the effects of cosmic-ray acceleration
S4.14	I. Sushch	The impact of the circumstellar magnetic field of progenitor stars on the resulting gamma-ray spectrum of supernova remnants
S4.15	I. Sushch	Non-thermal emission from the reverse shock of the youngest galactic Supernova remnant G1.9+0.3

S4.16	H. Suzuki	A systematic study on escaping of cosmic rays from SNR shocks through observations of thermal X-ray plasmas
S4.17	M. Vučetić	Proper motion of Cygnus loop filaments
S4.18	R. Yamazaki	Toward the generation of magnetized collisionless shocks with high-energy lasers
S4.19	V. Zekovic	Quasi-parallel collisionless shock (re)formation and particle acceleration by (non)resonant micro-instabilities
S4.20	H. Zeng	Evolution of high-energy particle distribution in Supernova Remnants
S4.21	X. Zhang	Is Supernova Remnant Cassiopeia A a PeVatron?

Session 5: Supernova Ejecta and Dust

S5.1	M. Barlow	Massive Amounts of Cold Dust in Small Magellanic Cloud Supernova Remnant 1E 0102-7219
S5.2	A. Bevan	Dust formation rates and locations in interacting SNe
S5.3	F. Bocchino	Ejecta fragments and protrusions in and around SN1006
S5.4	E. Greco	Studying the radiative recombination continua in the X-ray spectra of pure ejecta and of overionized plasmas
S5.5	F. Kirchschrager	Dust destruction by the reverse shock in Cas A
S5.6	Y.-H. Lee	Near-Infrared Multi-Object Spectroscopy of the Outer Ejecta Knots in Cassiopeia A
S5.7	M. Niculescu-Duvaz	Spatially resolved models of the dust in Cassiopeia-A using DAMOCLES
S5.8	F. D. Priestley	Revisiting the Crab Nebula's dust and synchrotron radiation from the infrared to radio domain
S5.9	F. D. Priestley	The survivability of newly-formed dust grains in SNRs
S5.10	J. Slavin	Survival of Dust Created in Cas A Supernova Remnant
S5.11	L. Shingles	Late-phase radiative transfer of Type Ia supernovae
S5.12	R. Wesson	Dust in the remnant of SN 1995N
S5.13	E. Dwek	The evolution of dust in SN ejecta

Session 6: Pulsar Wind Nebulae

S6.1	Y. Bao	Interpreting the GeV-TeV Gamma-ray Emission of the Vela X Pulsar Wind Nebula
S6.2	G. Castelletti	A new radio look of the pulsar wind nebula 3C 58
S6.3	Y. A. Gallant	Pulsar Wind Nebulae observed in TeV gamma-rays and their Galactic environments
S6.4	E. Giacani	New X-ray observations towards the pulsar PSR J1826-1256
S6.5	S. Hattori	NuSTAR Properties of G21.5-0.9
S6.6	J. Lee	Rapid X-Ray Variations of the Geminga Pulsar Wind Nebula
S6.7	B. Olmi	Middle aged PWNe: Hints on the reverberation process
S6.8	C. Omand	Submillimetre Constraints on the Pulsar-Driven SN Model

S6.9	S. Park	Spectral Nature of Quiescent X-ray Emission from SGR 0526-66 in the LMC
S6.10	S. Safi-Harb	The X-ray Evolution of the PWN in the SNR Kes 75
S6.11	S. Tanaka	Dynamics of Pulsar Wind Nebula with Magnetic Dissipation and Turbulence

Session 7: SNRs and Their Galaxies

S7.1	W. P. Blair	The Fireworks Galaxy, NGC 6946: Looking at the Fading Embers
S7.2	J. Bruursema	A UKIRT [FeII] Study of M33 and its Supernova Remnants
S7.3	B.-C. Koo	Supernova Remnants and Supernova Feedback
S7.4	D. Leahy	Applying models with reverse shocks to Galactic supernova remnants in the VGPS survey.
S7.5	D. Leahy	Using MHD simulations to construct analytical models for supernova remnant evolution
S7.6	M. Michałowski	What can we learn about SNe from atomic gas in their environments?
S7.7	I. Moumen	O CEASAR: The Optical Catalogue of Extragalactic Supernova Remnants
S7.8	H. Sano	ALMA view of the molecular clouds associated with the Magellanic SNRs
S7.9	S. Sarbadhicary	Deep, systematic radio-based surveys of supernova remnants in M31 and Magellanic Clouds

Session 8: Magnetic Fields in SNRs and PWNe

S8.1	A. Moranchel-Basurto	Asymmetries in the emission from young supernova remnants: The case of Tycho
S8.2	P. Slane	X-ray Polarization in Supernova Remnants

Session 9: Jets and Asymmetries in SNe and Their Remnants

S9.1	E. Greco	Discovery of a jet-like structure with overionized plasma in the SNR IC 443
S9.2	M. Millard	Measuring Ejecta Velocities in Tycho's and Kepler's Supernova Remnants with the Chandra HETGS
S9.3	T. Nagao	An extended aspherical explosion of a core-collapse supernovae
S9.4	A. Suzuki	Supernova ejecta with a powerful central engine
S9.5	S. Ustamujic	Three-dimensional MHD modeling of SNR IC 443: effects of the inhomogeneous medium in shaping the remnant morphology
S9.6	F. Vogt	Exploring the scientific potential of Virtual Reality for observational astrophysics with SNR 1E 0102.2-7219

Session 10: SNe and SNRs with circumstellar interactions

S10.1	C. Abate	What is the role of wind mass transfer in the progenitor evolution of Type Ia Supernovae?
S10.2	M. Arias	The Circumstellar and Interstellar Environment of VRO 42.05.01, A Peculiar Mixed Morphology SNR
S10.3	P. Boumis	Optical study of the peculiar SNR G 166+4.3 (VRO)
S10.4	A. Chiotellis	VRO 42.04.01: A supernova remnant resulting by a supersonically moving Wolf Rayet progenitors star
S10.5	S. Derlopa	SNR VRO (G 166.0 +4.3) 3-D morpho-kinematical model
S10.6	P. Chandra	Revealing inhomogeneities in supernovae shocks and their environments via low frequency radio observations
S10.7	É. J. Harvey	A recurrent nova super-remnant in the Andromeda galaxy
S10.8	M. Katsuragawa	Time-dependent hydrodynamic model of X-ray emitting plasma in evolved SNRs for high resolution X-ray spectroscopy
S10.9	H.-G. Lee	Near-infrared imaging and spectroscopic observations of supernova remnants in M33
S10.10	Q.-C. Liu	MCs toward SNR W50/SS 433
S10.11	H. Matsumura	Suzaku X-ray Observations of Galactic Supernova Remnants to Understand the Formation Process of Recombining Plasmas
S10.12	T. Matsuoka	Millimeter Emission from SNe in the Very Early Phase: Implications for Dynamical Mass Loss of Massive Stars
S10.13	N. Maxted	Upper Limits on Very-High-Energy Gamma-ray Emission from Supernovae Observed with H.E.S.S.
S10.14	M. Miceli	Fe K-alpha emission from the southwestern limb of SN 1006
S10.15	O. Mogawana	Radio Predictions Of Core-Collapse Supernovae
S10.16	A. P. Ravi	The Latest Evolution in the X-ray Remnant of SN 1987A
S10.17	P. Saha	A study of Kepler supernova remnant: angular power spectrum estimation from radio frequency data
S10.18	J. Y. Seok	Unbiased Spectroscopic Study of the Cygnus Loop with LAMOST
S10.19	H. Yasuda	Time evolution of broadband non-thermal emission from SNRs in different circumstellar environments
S10.20	G.-Y. Zhang	Non-equilibrium ionization in mixed-morphology SNRs
S10.21	P. Zhou	Molecular Gas toward Supernova Remnant Cassiopeia A

Special Session: JWST – SNRs/SNe

S.S.1	E. Regos	Detection of SNe beyond redshift of 2 with the JWST
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