

7th Heidelberg International Symposium on High-Energy Gamma-Ray Astronomy

Monday, 4 July 2022

Contributed Talks: EGAL parallel 1 (Aula Magna Ciències de la Terra) Chair: Lea Heckmann (15:00 - 16:30)

time	[id] title	presenter
15:00	[262] Shear acceleration in AGN jets	WANG, Jieshuang
15:15	[486] Multiple shock acceleration in AGN jets	MÜLLER, Ana Laura
15:30	[279] A multi-wavelength view of gamma-ray emitting extreme BL Lacertae blazar candidates hidden within Fermi-LAT data.	NIEVAS ROSILLO, Mireia
15:45	[290] Absorption features in gamma-ray spectra of BL Lac objects	FOFFANO, Luca
16:00	[321] 1ES 0647+250: 10 years of multiwavelength observations	OTERO-SANTOS, Jorge
16:15	[367] Neutral pion bumps in TeV spectra of X-ray flaring blazars	PETROPOULOU, Maria

Contributed Talks: GAL parallel 1 (Aula Magna Biologia) Chair: Martina Cardillo (15:00 - 16:30)

time	[id] title	presenter
15:00	[320] MAGIC observations of the putative PeVatron SNR G106.3+2.7 in the proximity of the Boomerang PWN	SAITO, Takayuki
15:15	[326] Revisiting HESS J1809–193 — a very-high-energy gamma-ray source in a fascinating environment	MOHRMANN, Lars
15:30	[324] Constraining leptonic emission scenarios for the PeVatron candidate HESS J1702-420 with deep XMM-Newton observations	GIUNTI, Luca
15:45	[425] HESS J1831-098: a hadronic PeVatron or a very energetic pulsar wind nebula?	LYPOVA, Iryna
16:00	[382] The jets of SS 433 as seen by HESS	OLIVERA NIETO, Laura
16:15	[371] A hard X-ray look at the Manatee nebula (W50) powered by the Galactic microquasar SS 433	SAFI-HARB, Samar

Contributed Talks: EGAL parallel 2 (Aula Magna Ciències de la Terra) Chair: Frederic Daigne (17:00 - 18:30)

time	[id] title	presenter
17:00	[414] An unbiased search for TeV emission from high-frequency peaked BL Lacs	ERRANDO, Manel
17:15	[408] Characterizing the VHE emission of the extreme HBLs 1ES 1218+304 and 1ES 0229+200 with VERITAS	BATISTA ON BEHALF OF THE VERITAS COLLABORATION, Pedro
17:30	[274] The peculiar short-duration GRB 200826A and its supernova	ROSSI, Andrea
17:45	[358] Intergalactic magnetic field studies by means of the gamma-ray emission from GRB 190114C	DA VELA, Paolo

18:00	[488] Perspectives of observing prompt very-high-energy gamma emission from binary neutron star mergers	BANERJEE, Biswajit
18:15	[495] GRB prompt emission from the synchrotron radiation of relativistic electrons in a decaying magnetic field	BOŠNJAK, Željka

Contributed Talks: GAL parallel 2 (Aula Magna Biologia) Chair: Kathrin Egberts (17:00 - 18:30)

time	[id] title	presenter
17:00	[374] The Galactic diffuse gamma-ray emission meets the PeV frontier	DE LA TORRE LUQUE, Pedro
17:15	[461] New insights towards the Galactic center from HESS	DEVIN, Justine
17:30	[372] The origin of MeV gamma-ray diffuse emission from the inner Galactic region	TSUJI, Naomi
17:45	[224] Assessing the Impact of Hydrogen Absorption on the Characteristics of the Galactic Center Excess	POHL, Martin
18:00	[394] Gamma-ray observations of nearby HII regions	PERON, Giada
18:15	[411] NuSTAR broad-band X-ray observations and multi-wavelength investigations of Galactic TeV sources	MORI, Kaya

Tuesday, 5 July 2022

Contributed Talks: EGAL parallel 3 (Aula Magna Ciències de la Terra) Chair: Simone Mender (15:00 - 16:30)

time	[id] title	presenter
15:00	[433] A multiwavelength look at the 2017 flare of OJ 287	HERVET, Olivier
15:15	[521] Non-thermal radiation from super-Eddington winds in AGNs	ROMERO, Gustavo E.
15:30	[440] The January 2017 Orphan Gamma-ray Flare from the Radio Galaxy NGC 1275: VERITAS and Multiwavelength Results	FORTSON, Lucy
15:45	[449] The most complete multi-wavelength view of M87 to date: the 2017 campaign	HAHN, Alexander
16:00	[456] FSRQ or BL Lac? MWL view of the transitional blazar OT081	MANGANARO, Marina
16:15	[319] Probe AGNs variability with the Cerenkov Telescope Array	CANGEMI, Floriane

Contributed Talks: GAL parallel 3 (Aula Magna Biologia) Chair: Jakub Juryssek (15:00 - 16:30)

time	[id] title	presenter
15:00	[424] Can massive star clusters produce PeV photons?	VIEU, Thibault
15:15	[381] Cygnus OB2 as testing ground for particle acceleration at the wind termination shock of massive star clusters	MENCHIARI, Stefano
15:30	[271] New cosmic-ray acceleration sites detected by the Fermi-LAT in our Galaxy	LEMOINE-GOUMARD, Marianne
15:45	[448] Cosmic Rays origin studies in the W 44 region with Fermi-LAT and MAGIC observations	DI TRIA, Riccardo
16:00	[466] Multiwavelength studies of Galactic PeVatron candidates with VERITAS	PARK, Nahee
16:15	[412] On the origin of the complex energy-dependent structure of HESS J1702-420	MALYSHEV, Denys

Contributed Talks: EGAL parallel 4 (Aula Magna Ciències de la Terra) Chair: Núria Torres-Albà (17:00 - 18:30)

time	[id] title	presenter
17:00	[310] Periodic Variability in gamma-ray Emitting Blazars with Fermi-LAT	PEÑIL, Pablo
17:15	[370] Locating the blazar gamma-ray emitting zone from astrometric VLBI and Gaia data?	SOL, Helene
17:30	[431] Confronting observations of VHE gamma-ray blazar flares with reconnection models	JORMANAINEN, Jenni
17:45	[300] A shock-in-jet synchrotron mirror model	BOETTCHEER, Markus
18:00	[299] Ultrahigh-energy cosmic-ray induced gamma-ray and neutrino fluxes from blazars	RAZZAQUE, Soebur
18:15	[301] Radio-gamma-ray response in blazars as a signature of adiabatic blob expansion	TRAMACERE, Andrea

Contributed Talks: GAL parallel 4 (Aula Magna Biologia) Chair: Brian Reville (17:00 - 18:30)

time	[id] title	presenter
17:00	[507] Multiwavelength investigation of LHAASO J1908+0621: an unidentified galactic PeVatron	CRESTAN, silvia Dr GIULIANI, Andrea Dr MEREGHETTI, Sandro Dr SIDOLI, Lara Dr PINTORE, Fabio Dr LA PALOMBARA, Nicola
17:15	[491] Origin of pulsar radio emission	TIMOKHIN, Andrey
17:30	[284] On the potential of bright, young pulsars to power ultra-high gamma-ray sources	DE ONA WILHELMI, Emma
17:45	[387] Probing the population of pulsar halos with Fermi-LAT	ABDOLLAHI, Soheila
18:00	[379] Are pulsar halos rare ?	MARTIN, Pierrick
18:15	[419] New TeV halo candidate surrounding PSR J0359+5414 detected with the HAWC Observatory	COUTIÑO DE LEÓN, Sara

Wednesday, 6 July 2022

Contributed Talks: EGAL parallel 5 (Aula Magna Ciències de la Terra) Chair: Jonathan Biteau (15:00 - 16:30)

time	[id] title	presenter
15:00	[260] Probing the intergalactic magnetic field through gamma-ray observations with the Fermi LAT and H.E.S.S.	MEYER, Manuel
15:15	[288] Hunting the gamma-ray emission from Fast Radio Burst with Fermi-LAT	PRINCIPE, Giacomo
15:30	[336] Gamma-ray Blazars above 100 MeV: density, evolution and origin of the Extragalactic Gamma-ray Background	MARCOTULLI, Lea
15:45	[362] The gamma-ray morphology of M87 and the cosmic-ray pressure in the Virgo Cluster with H.E.S.S.	BARBOSA MARTINS, Victor
16:00	[430] Virial shocks in galaxy clusters	HOU, Kuan-Chou
16:15	[438] VERITAS Search for Gamma-ray and Optical Counterparts to Fast Radio Bursts	LUNDY, Matthew

Contributed Talks: GAL parallel 5 (Aula Magna Biologia) Chair: Margarita Hernanz (15:00 - 16:30)

time	[id] title	presenter
15:00	[222] Gamma-ray emission of hadronic origin from nova RS Oph revealed by the MAGIC telescopes	LÓPEZ-ORAMAS, Alicia
15:15	[309] Efficient cosmic-ray acceleration in the recurrent nova RS Ophiuchi revealed by H.E.S.S.	STEINMASSL, Simon
15:30	[294] RS Ophiuchi nova outburst detection by the LST-1	AGUASCA-CABOT, Arnau
15:45	[407] Revealing the particle acceleration in stellar wind shocks of massive colliding wind binaries	MARCOTE, Benito
16:00	[311] Non-thermal emission from colliding-wind binaries	DEL PALACIO, Santiago
16:15	[313] The 2020 periastron of Eta Carinae at high-energies	MARTÍ-DEVESA, Guillem

Contributed Talks: GAL parallel 6 (Aula Magna Biologia) Chair: Valentí Bosch-Ramon (17:00 - 18:30)

time	[id] title	presenter
17:00	[278] Radio pulsations from LS I 61 303	TORRES, Diego F
17:15	[405] VERITAS observations of gamma-ray binaries	PATEL, Sonal Ramesh
17:30	[403] H.E.S.S. Observations of the 2021 PSR B1259-63 Periastron	THORPE-MORGAN, Charles
17:45	[413] Radio to GeV view of PSRB 1259-63 periastron passage in 2021.	CHERNYAKOVA, Masha
18:00	[391] Modelling Wind Dynamics and Gamma-Ray Emission from LS 5039	KISSMANN, Ralf
18:15	[282] Investigating the puzzling radio structures of the gamma-ray binary LS 5039	MOLINA, Edgar

Contributed Talks: THEORY parallel (Aula Magna Ciències de la Terra) Chair: Benoit Cerutti (17:00 - 18:30)

time	[id] title	presenter
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17:00	[264] Relativistic magnetic bombs	LYUTIKOV, Maxim
17:15	[295] Particle acceleration via magnetic reconnection near spinning black holes coupled to a surrounding disk	EL MELLAH, Ileyk
17:30	[334] A unified picture for three different cosmic-ray observables	FORNIERI, Ottavio
17:45	[360] Revisiting particle acceleration at ultra-relativistic shocks	HUANG, Zhi-Qiu
18:00	[417] Magnetic field amplification driven by the relativistic shock-clump interaction	TOMITA, Sara
18:15	[484] On the role of galactic wind termination shocks in accelerating cosmic rays	MUKHOPADHYAY, Payel

Thursday, 7 July 2022

Contributed Talks: EGAL parallel 6 (Aula Magna Ciències de la Terra) Chair: Matteo Cerruti (15:00 - 16:30)

time	[id] title	presenter
15:00	[315] High energy neutrinos from gamma-ray bursts	OGANESYAN, Gor
15:15	[354] Multi-messenger characterization of Mrk501 during historically low X-ray and γ -ray activity	HECKMANN, Lea
15:30	[366] Searches for neutrino point sources in the Northern Sky with the IceCube Neutrino Observatory	BELLENGHI, Chiara
15:45	[286] An Upper Bound for the Neutrino Flux From Jets of Active Galactic Nuclei	MBAREK, Rostom
16:00	[472] High-energy neutrinos and gamma rays from winds and tori in active galactic nuclei	INOUE, Susumu
16:15	[493] Cosmology, fundamental physics and Multi-Messenger Astrophysics with Gamma-Ray Bursts	AMATI, Lorenzo

Contributed Talks: GAL parallel 7 (Aula Magna Biologia) Chair: Masha Chernyakova (15:00 - 16:40)

time	[id] title	presenter
15:00	[263] Particle acceleration at pulsar wind termination shocks revisited: shear, reconnection and giant plasmoids	Mr CERUTTI, Benoît
15:15	[365] Assessing the flaring behaviour of the Crab pulsar wind nebula system in high-energy ranges	TSIROU, Michelle
15:30	[529] High-mass gamma-ray binaries as very efficient accelerators	BOSCH-RAMON, Valenti
15:45	[462] ALMA CO Observations in the Northwestern Shell of the Gamma-Ray SNR RX J1713.7-3946	SANO, Hidetoshi
16:00	[475] Particle escape from supernova remnant shocks: gamma-ray and cosmic-ray signatures	CELLI, Silvia
16:15	[530] -	

Contributed Talks: GAL / APFP parallel (Aula Magna Biologia) Chair: Dmitry Khangulyan (17:00 - 18:30)

time	[id] title	presenter
17:00	[473] Adiabatic-radiative shock systems in non-relativistic astrophysical jets: a key to enhance the gamma-ray emission	ARAUDO, Anabella
17:15	[331] PWNe beyond the free expansion	MARTIN, Jonatan
17:30	[225] Making sense of recent results on electrons and positrons from cosmic ray experiments	EVOLI, Carmelo
17:45	[343] Gamma-ray monochromatic line emission search from dark matter annihilation up to 100 TeV towards the Galactic Centre with MAGIC	INADA, Tomohiro
18:00	[377] Search for Dark Matter annihilation with a combined analysis of dwarf spheroidal galaxies from Fermi-LAT, HAWC, H.E.S.S., MAGIC and VERITAS	KERSZBERG, Daniel
18:15	[395] LIVelihood: Testing Lorentz Invariance Violation on Observations of Energy-dependent Time Delays from Multiple-type Gamma-ray Sources	CAROFF, Sami

Contributed Talks: INSTR parallel (Aula Magna Ciències de la Terra) Chair: Abelardo Moralejo (17:00 - 18:30)

time	[id] title	presenter
17:00	[348] The ASTRI Mini-Array Core Science Program	VERCELLONE, Stefano
17:15	[359] The SST-1M gamma-ray mini-array - early operations and prospects	NIEMIEC, Jacek
17:30	[353] Advancing the atmospheric Cherenkov-method to detect gamma-rays with one Giga electron Volt	MUELLER, Sebastian Achim
17:45	[479] Gammapy - an open source package for high energy astrophysics	SINHA, Atreyee
18:00	[305] Establishing the MAGIC data legacy: adopting standardised data formats and open-source analysis tools	NIGRO, Cosimo
18:15	[329] Astro-COLIBRI: The coincidence library for real-time inquiry for multi-messenger astrophysics	LEFRANC, Valentin