

Fiorenza Donato

Formazione

Laurea in Fisica, Università di Torino, 2/3/1995, con votazione di 110/110 e lode.

Dottorato di Ricerca in Fisica, 1995 - 1998, Università di Torino, relatore prof. XXXXXXXXXX

Posizione Accademica

03/2021: Professore Ordinario di Fisica Teorica (S.S.D. FIS/02) presso il Dipartimento di Fisica dell'Università di Torino

11/2015 - 02/2021: Professore Associato di Fisica Teorica (S.S.D. FIS/02) presso il Dipartimento di Fisica dell'Università di Torino

11/2005 - 10/2015: Ricercatore Universitario a tempo indeterminato (S.S.D. FIS/02) presso il Dipartimento di Fisica dell'Università di Torino

Qualifiche Accademiche

2013: Abilitazione Nazionale a Professore di Prima Fascia, S.S.D. FIS/02, S.C. 02/a2

2018/2020/quadrimestre 3: Abilitazione Nazionale a Professore di Prima Fascia, S.S.D. FIS/02, S.C. 02/a2

2002: Habilitation à Diriger des Recherches, Université de Savoie, Francia

Esperienze Professionali

- 2004-2005: Alexander von Humboldt fellow at Max Planck Institute for Physics, Monaco (Germania)
- 2004-2005: Assegno di ricerca, INFN, Torino
- 2002-2004: Assegno di ricerca, Dip. di Fisica Teorica, Univ. di Torino
- 2001: Chercheur associé CNRS
- 1999-2001: Research Fellowship dell'INFN al LAPTH (Francia)
- 1999: Research Fellowship dell'IN2P3 al LAPTH (Francia)
- 1998-1999: Research Fellowship del MIUR al LAPTH (Francia)

Responsabilità Nazionali e Internazionali

Responsabile Nazione dell'Iniziativa Specifica **TAsP** - Theoretical Astroparticle Physics all'interno della Commissione Scientifica 4 dell'INFN (circa 100 partecipanti)

Delegata Nazionale per la Commissione di Fisica Astroparticellare (C4) di **IUPAP**, International Union of Pure and Applied Physics, 2018-2021

Premi

Fellow of the **American Physical Society** 2015 *For extensive ground breaking contributions in astro-particle physics and indirect dark matter searches.*

Incarichi di ricerca e affiliazioni

- 2015: Membro dell'American Physics Society
- dal 2008: Associata a COSPAR (Committee on Space Research)
- dal 1996: Associata all' *Istituto Nazionale di Fisica Nucleare* (INFN)

Attività di valutazione

- Referee per le riviste internazionali *Physical Review Letters*, *Physical Review D*, *Physical Review Research*, *Physics Letters B*, *Astronomy & Astrophysics*, *The Astrophysical Journal*, *Journal of Cosmology and Astroparticle Physics*, *Astroparticle Physics*, *Monthly Notices of the Royal Astronomical Society*
- Referee per progetti di ricerca del *MIUR*
- Valutatore esperto per Marie Skłodowska-Curie Actions, European Union
- Scientific Evaluation Panel per l'Agenzia Nazionale della Ricerca *ANR* francese
- Referee per progetti di ricerca per Agenzia spaziale italiana, svedese, cilena
- Referee di progetti di ricerca e curricula presso svariate Università internazionali

Servizi Istituzionali

- 2018-oggi: Membro della Commissione Ricerca
- 2015-oggi: Membro della Commissione Orientamento
- 2009-oggi: Co-responsabile del curriculum teorico della Laurea Magistrale in Fisica
- 2014-2015: Membro della Scuola di Scienze dell'Università di Torino
- 2014-2015: Membro della Commissione Organico di Dipartimento
- 2011-2015: Membro eletto della Giunta di Dipartimento
- 2009-2013: Membro della Commissione Didattica
- 2008-2012: Membro eletto tra i ricercatori della Facoltà di Scienze MM.FF.NN.
- 2008-2011: Coordinatrice dei Seminari e amministratrice dei fondi dei seminari INFN
- 2005-2008: Coordinatrice del tutoraggio didattico per la Laurea in Fisica

Progetti di Ricerca

- 2019: *Principal Investigator* Progetto ASI-INAF n. 2017-14-H.0, 2nd call, grant "Inverse Compton Haloes around Pulsar Wind Nebulae"
- 2019: MIUR-PRIN 2017 Research Grant "Theoretical Astroparticle Physics" (partecipazione)

- 2019: NASA Guest Investigator Grant, Fermi GI Program Cycle 12, "Detecting gamma-ray halos around PWNe and interpretation of the positron excess" (partecipazione)
- 2017: *Principal Investigator* Progetto CRT II TORNATA 2017 - RF. 2017.2008 - "A new Dark Matter Hunting"
- 2017: *Principal Investigator* Progetto ASI-INAF n. 2017-14-H.0, grant "Astronomy with charged leptons: the new frontier for Galactic sources"
- 2016: NASA Guest Investigator Grant, Fermi GI Program Cycle 9, "Determining the contribution of point sources to the IGRB with an energy- dependent photon fluctuation analysis" (partecipazione)
- 2012: Progetto di Ateneo "Origin And Detection Of Galactic And Extragalactic Cosmic Rays" (partecipazione)
- 2012: MIUR-PRIN progetto "Theoretical Astroparticle Physics" (partecipazione)
- 2009: MIUR-PRIN progetto "Asimmetria Materia-Antimateria, Materia Oscura ed Energia Oscura all'Epoca di LHC" (partecipazione)

Organizzazione di conferenze internazionali

- 2021: Scientific Organizing Committee di ICRC2021, Berlino - online, Luglio 2021
- 2019: Scientific Organizing Committee di ICRC2019, Madison, USA, Luglio 2019
- 2019: *Chair e organizzatrice* del 2nd Workshop XSCRC Cross sections for cosmic rays at CERN, CERN, Novembre 2019
- 2019: Scientific Organizing Committee di WIN2019. The 27th International Workshop on Weak Interactions and Neutrinos, Bari, Giugno 2019
- 2018: Scientific Organizing Committee for the 8th Fermi Symposium, Baltimore, USA, Ottobre 2018
- 2018: Scientific Organizing Committee of the Workshop New Frontiers in Theoretical Physics, Cortona, Italy, Maggio 2018
- 2017: Convener of the 2nd edition of Non perturbative QCD workshop, NPQCD2017, Pollenzo, Maggio 2017
- 2017: *Fondatrice e chair* del Workshop XSCRC Cross sections for cosmic rays at CERN, CERN, Marzo 2017
- 2017: Scientific Program Committee for the International Cosmic Ray Conference ICRC2017, Gamma Rays Division, Busan, South Korea, Luglio 2017
- 2015: Scientific Organizing Committee of the International Conference TAUP 2015, Torino, Settembre 2015
- 2015: Scientific Program Committee for the International Cosmic Ray Conference ICRC 2015, Cosmic Rays Division, The Hague, Luglio 2015
- 2015: *Chair and organizer* del workshop The p-He cross section measurement: a physics case from cosmic rays, Torino, Luglio 2015

- 2014: Scientific Organizing Committee of the International PhD School ISAPP (International School of Astroparticle Physics) 2014, Belgirate, Luglio 2014
- 2014: Convener at the Neutrino Oscillation Workshop, NOW2014, Conca Specchiulla, Settembre 2014
- 2011: Convener at the 13th ICATPP Conference on Astroparticle, Particle, Space Physics and Detectors for Physics Applications, Como, Ottobre 2011
- 2011: Convener at the TeV Particle Astrophysics Workshop, Stockholm, Agosto 2011
- 2010: Convener at the ICATPP Conference on Cosmic Rays for Particle and Astroparticle Physics, Como, Ottobre 2010
- 2010: Scientific Organizing Committee of PPC-2010, The fourth international Workshop on the Interconnection between Particle Physics and Cosmology, Torino, Luglio 2010
- 2009: Convener at International Conference on Topics in Astroparticle and Underground Physics TAUP, Rome, Settembre 2009
- 2008: Convener at the TeV Particle Astrophysics Workshop, Beijing, Settembre 2008

Lezioni a scuole internazionali di Dottorato

- 2019: *Galactic Cosmic Rays and Multimessenger Astronomy*, Ciclo di lezioni al Galileo Galilei Institute “Theoretical Aspects of Astroparticle Physics, Cosmology and Gravitation”, Marzo 2019
(<https://www.youtube.com/channel/UCl-h-Opkd1qwh7bGP3hC4Q/>)
- 2017: *Propagation of Cosmic Rays* Lezioni alla International School of Astroparticle Physics *ISAPP 2017*, Texel (Olanda), Luglio 2017
- 2017: *Gamma Rays and Dark Matter* Lezioni alla NASA Fermi Summer School, Delaware (USA), Giugno 2017
- 2013: *Dark Matter and Charged Cosmic Rays*, Lezione alla International School of Astroparticle Physics *ISAPP 2013*, Djuronaset (Svezia), Luglio 2013
- 2009: *Secondary Cosmic Rays* Lezioni alla School MAPS - Methods of Analysis for Physics in Space, Perugia (Italy), Ottobre 2009
- 2006: *Dark Matter Particle Physics*, Lezioni alla International School of Astroparticle Physics *ISAPP 2006* Sorrento (Italy), Ottobre 2006
- 2003: *Indirect detection of supersymmetric Dark Matter* Lezione alla International School of Astroparticle Physics *ISAPP 2003* Conca Specchiulla, Otranto (Italy)
- 2001: *Propagation of galactic Cosmic Ray nuclei and antiprotons in a diffusion model* Lezioni all’International School of Space Science *ISSS*, L’Aquila (Italy)
- 2000: *Dark Matter in Galactic Cosmic Rays*, Lezione alla International Summer School *Gran Sasso Summer Institute*, Laboratori Nazionali del Gran Sasso (Italy).

Divulgazione scientifica

- 2019: *A caccia di materia oscura nell'Universo*, Aperitivo Scientifico, Torino
- 2017: *La materia oscura nell'Universo*, Pint of Science, Torino
- 2017: *Problemi aperti in fisica astroparticellare*, Scuola di Fisica, Torino
- 2016: *La materia oscura nell'Universo: facciamo luce!*, Scuola di Fisica, Torino
- 2016: *La materia oscura nell'Universo*, Bravinricerca, Liceo Scientifico, Bra
- 2015: *Fare luce sulla materia oscura*, Festival della Scienza, Settimo Torinese
- 2015: *The dark matter: From the infinitely small to the infinitely large*, Torino, Associazione Amici dell'Università
- 2008: *The dark side of our Universe*, Le donne nella scienza, Università di Napoli
- 2000: *Looking for dark matter in our Universe* Exploratorium, San Francisco (USA)

Insegnamento ai corsi

- 2020-2021:
 - Fenomenologia delle Interazioni Fondamentali (48 ore)
 - Fisica e l'Universo (24 ore)
 - Fisica per Matematica applicata alla Finanza e all'Assicurazione (48 ore)
- 2019-2020:
 - Fenomenologia delle Interazioni Fondamentali (48 ore)
 - Fisica e l'Universo (24 ore)
 - Fisica per Matematica applicata alla Finanza e all'Assicurazione (48 ore)
- 2018-2019:
 - Fenomenologia delle Interazioni Fondamentali (48 ore)
 - Fisica e l'Universo (24 ore)
 - Fisica Sperimentale A per Scienze Strategiche (14 ore)
 - Fisica Sperimentale B per Scienze Strategiche (28 ore)
 - Fisica per Matematica applicata alla Finanza e all'Assicurazione (48 ore)
- 2017-2018:
 - Fenomenologia delle Interazioni Fondamentali (48 ore)
 - Fisica e l'Universo (24 ore)
 - Fisica Sperimentale A per Scienze Strategiche (14 ore)
 - Fisica Sperimentale B per Scienze Strategiche (28 ore)
 - Fisica per Matematica applicata alla Finanza e all'Assicurazione (48 ore)
- 2016-2017:
 - Fenomenologia delle Interazioni Fondamentali (48 ore)
 - Fisica e l'Universo (24 ore)
 - Fisica Sperimentale A per Scienze Strategiche (14 ore)
 - Fisica Sperimentale B per Scienze Strategiche (28 ore)
- 2015-2016:
 - Fenomenologia delle Interazioni Fondamentali (48 ore)
 - Fisica e l'Universo (24 ore)

- Fisica Sperimentale A per Scienze Strategiche (14 ore)
- Fisica Sperimentale B per Scienze Strategiche (28 ore)
- 2014-2015:
 - Fenomenologia delle Interazioni Fondamentali (48 ore)
 - Fisica e l'Universo (24 ore)
 - Fisica Sperimentale A per Scienze Strategiche (14 ore)
 - Fisica Sperimentale B per Scienze Strategiche (28 ore)
- 2013-2014:
 - Fenomenologia delle Interazioni Fondamentali (48 ore)
 - Fisica e l'Universo (24 ore)
 - Fisica Sperimentale A per Scienze Strategiche (14 ore)
 - Fisica Sperimentale B per Scienze Strategiche (28 ore)
- 2012-2013:
 - Fenomenologia delle Interazioni Fondamentali (48 ore)
 - Tutoraggio per Meccanica Analitica e Relatività Ristretta (18 ore)
- 2011-2012:
 - Fenomenologia delle Interazioni Fondamentali (24 ore)
 - Tutoraggio per Meccanica Analitica e Relatività Ristretta (18 ore)
- 2010-2011:
 - Fenomenologia delle Interazioni Fondamentali (24 ore)
 - Tutoraggio per Meccanica Analitica e Relatività Ristretta (18 ore)
- 2009-2010:
 - Fenomenologia delle Interazioni Fondamentali (24 ore)
 - Fisica Moderna per Ottica e optometria (20 ore)
 - Tutoraggio per Meccanica Analitica e Relatività Ristretta (18 ore)
- 2008-2009:
 - Fenomenologia delle Interazioni Fondamentali (24 ore)
 - Tutoraggio per Meccanica Analitica e Relatività Ristretta (18 ore)
 - Fisica Moderna per Ottica e optometria (20 ore)
- 2007-2008:
 - Fenomenologia delle Interazioni Fondamentali (24 ore)
 - Tutoraggio per Meccanica Analitica e Relatività Ristretta (18 ore)
 - Precorso serale di Matematica per studenti lavoratori (20 ore)
- 2006-2007:
 - Fenomenologia delle Interazioni Fondamentali (24 ore)
 - Tutoraggio per Meccanica Analitica e Relatività Ristretta (18 ore)
 - Precorso serale di Matematica per studenti lavoratori (20 ore)
- 2004-2005:
 - Tutoraggio per Meccanica Analitica e Relatività Ristretta (18 ore)
- 2000-2001:
 - Esercitazioni di Elettricità e Magnetismo presso IUT (Institut Universitaire de Technologie), Université de Savoie, (24 ore)

Valutazione della didattica

Indice (percentuale) di soddisfazione sulla docenza (somma dei giudizi) e parametro di **Valutazione della docenza**, valore medio (scala tra **-1 e +1**) da parte degli studenti:

Supervisione di studenti

18 tesi di Laurea Triennale in Fisica;
50 tesi di Laurea Triennale in Scienze Strategiche;
18 tesi di Laurea Magistrale in Fisica

[REDACTED]

Supervisione di tesi di Dottorato

- [REDACTED], Hamburg University, 2010-2013 (cotutela internazionale con [REDACTED], Desy Hamburg) - ora ricercatrice permanente al CNRS;
- [REDACTED], Valencia University, 2010-2013 (cotutela internazionale con [REDACTED] Valencia) - ora junior researcher CSIC, Valencia;
- [REDACTED], Università di Torino, 2011-2014 (cotutela internazionale con [REDACTED] Grenoble). Tesi di Dottorato vincitrice del premio Fubini dell'INFN 2015. Ora ricercatore TD *Fellini* dell'INFN;
- [REDACTED], Università di Torino, 2015-2018. Tesi di Dottorato vincitrice del premio Fubini dell'INFN 2019. Ora postdoc a RWTH Aachen.
- [REDACTED], Università di Torino 2016-2019 (cotutela internazionale con [REDACTED], Aachen). Ora postdoc a Stockholm Univeristy.
- [REDACTED], Università di Torino, in corso (2020-2023)

Membro di Giuria

- 2015 Premio Nazionale Fubini dell' INFN per tesi di dottorato in Fisica Teorica
- 2017 Premio Nazionale Fubini dell' INFN per tesi di dottorato in Fisica Teorica
- 2017-2018 Premio Molinari della Sezione INFN di Torino per la migliore tesi di laurea in Fisica Teorica
- Conferimento della Habilitation à diriger de Recherche (Francia) a [REDACTED], APC Université Paris VII (2011), [REDACTED], CNRS, Saclay (2015), [REDACTED], CNRS, Grenoble (2018)
- Esame finale di 20 tesi di dottorato: [REDACTED]

[REDACTED]

[REDACTED]

Lista delle Pubblicazioni

1. *Does the Geminga γ -ray halo imply slow diffusion around pulsars?*
S. Recchia, M. Di Mauro, F. A. Aharonian, F. Donato, S. Gabici, S. Manconi
arxiv: 2106.02275, subm. Phys. Rev. Lett.
2. *Dissecting the inner Galaxy with γ -ray pixel count statistics*
F. Calore, F. Donato, S. Manconi
arxiv: 2102.12497, subm. Phys. Rev. Lett.
3. *Investigating γ -ray halos around three HAWC bright sources in Fermi-LAT data*
M. Di Mauro, S. Manconi, M. Negro and F. Donato
arxiv: 2012.05932, subm. Phys. Rev. D
4. *On the interpretation of the latest AMS-02 cosmic ray electron spectrum*
M. Di Mauro, F. Donato and S. Manconi,
arxiv: 2010.13825, subm. Phys. Rev. D
5. *Cosmic-ray Antinuclei as Messengers of New Physics: Status and Outlook for the New Decade*
P. von Doetinchem *et al.*
JCAP 08, 035 (2020)
6. *Contribution of pulsars to cosmic-ray positrons in light of recent observation of inverse-Compton halos*
S. Manconi, M. Di Mauro and F. Donato
Phys. Rev. D 102 023015 (2020)
7. *Testing gamma-ray models of blazars in the extragalactic sky*
S. Manconi, M. Korsmeier, F. Donato, N. Fornengo, M. Regis, H.S. Zechlin
Phys. Rev. D 101, 103026 (2020)
8. *Evidences of low-diffusion bubbles around Galactic pulsars*
M. Di Mauro, S. Manconi, F. Donato
Phys. Rev. D 101, 103035 (2020)
9. *Detection of a γ -ray halo around Geminga with the Fermi-LAT and implications for the positron flux*
M. Di Mauro, S. Manconi, F. Donato
Phys. Rev. D 100, 123015 (2019)
10. *Multi-messenger constraints to the local emission of cosmic-ray electrons*
S. Manconi, M. Di Mauro and F. Donato
JCAP 1904 (2019) 024
11. *Production cross sections of cosmic antiprotons in the light of new data from NA61 and LHCb experiments*
M. Korsmeier, F. Donato and M. Di Mauro
Phys. Rev. D 97, 103019 (2018)
12. *Prospects to verify a possible dark matter hint in cosmic antiprotons with antideuterons and antihelium*
M. Korsmeier, F. Donato and N. Fornengo
Phys. Rev. D 97, 103011 (2018)

13. *Deriving the contribution of blazars to the Fermi-LAT Extragalactic γ -ray background at $E > 10$ GeV with efficiency corrections and photon statistics*
M. Di Mauro, S. Manconi, H.-S. Zechlin, M. Ajello, E. Charles and F. Donato
Astrophys. J. *856*, 106 (2018)
14. *Constraining Galactic dark matter with gamma-ray pixel counts statistics*
H.-S. Zechlin, S. Manconi and F. Donato,
Phys. Rev. D *98*, 083022 (2018)
15. *Prescriptions on antiproton cross section data for precise theoretical antiproton flux predictions*
F. Donato, M. Korsmeier and M. Di Mauro,
Phys. Rev. D *96*, 043007 (2017)
16. *Theoretical interpretation of Pass 8 Fermi-LAT $e^+ + e^-$ data*
M. Di Mauro, S. Manconi, A. Vittino, F. Donato, *et al.*,
Astrophys. J. *845*,107 (2017)
17. *Dipole anisotropy in cosmic electrons and positrons: inspection on local sources*
S. Manconi, M. Di Mauro and F. Donato
JCAP *1701*, 006 (2017)
18. *Realistic estimation for the detectability of dark matter sub-halos with Fermi-LAT*
F. Calore, V. De Romeri, M. Di Mauro, F. Donato and F. Marinacci
Phys. Rev. D *96*, 063009 (2017)
19. *Statistical Measurement of the Gamma-ray Source-count Distribution as a Function of Energy*
H. S. Zechlin, A. Cuoco, F. Donato, N. Fornengo and M. Regis
Astrophys. J. *826*, L31 (2016)
20. *Unveiling the Gamma-ray Source Count Distribution Below the Fermi Detection Limit with Photon Statistics*
H. S. Zechlin, A. Cuoco, F. Donato, N. Fornengo and A. Vittino
Astrophys. J.S. *225*, 18 (2016)
21. *Radio detection prospects for a bulge population of millisecond pulsars as suggested by Fermi-LAT observations of the inner Galaxy*
F. Calore, M. Di Mauro, F. Donato, J. W. T. Hessels and C. Weniger
Astrophys. J. *827*, 143 (2016)
22. *Dark matter versus astrophysics in the interpretation of AMS-02 electron and positron data*
M. Di Mauro, F. Donato, N. Fornengo and A. Vittino
JCAP *1605*, 031 (2016)
23. *Review of the theoretical and experimental status of dark matter identification with cosmic-ray antideuterons*
T. Aramaki *et al.*
Phys. Rept. *618*, 1 (2016)
24. *The Connection Between the Positron Fraction Anomaly and the Spectral Features in Galactic Cosmic-Ray Hadrons*
N. Tomassetti and F. Donato
Astrophys. J. *803*, 2, L15 (2015)

25. *The composition of the Fermi-LAT IGRB intensity: emission from extragalactic point sources and dark matter annihilations*
M. Di Mauro and F. Donato
Phys. Rev. D *91*, 123001 (2015)
26. *What Next: White Paper of the INFN-CSN1*
A. Andreazza, M. Anselmino, P. Azzi, W. Baldini, R. Barbieri, F. Bedeschi, E. Bertuzzo and C. Biino *et al.*
Frascati Phys. Ser. *60*, 1 (2015).
27. *New evaluation of the antiproton production cross section for cosmic ray studies*
M. Di Mauro, F. Donato, A. Goudelis and P. D. Serpico
Phys. Rev. D *90*, 085017 (2014)
28. *Fermi-LAT gamma-ray anisotropy and intensity explained by unresolved Radio-Loud Active Galactic Nuclei*
M. Di Mauro, A. Cuoco, F. Donato and J. M. Siegal-Gaskins
JCAP *1411*, 021 (2014)
29. *Diffuse gamma-ray emission from galactic pulsars*
F. Calore, M. Di Mauro and F. Donato
Astrophys. J. *796*, 1 (2014)
30. *Gamma-ray anisotropies from dark matter in the Milky Way: the role of the radial distribution*
F. Calore, V. De Romeri, M. Di Mauro, F. Donato, J. Herpich, A. V. Macciò and L. Maccione
Mon. Not. Roy. Astron. Soc. *442*, 1151 (2014)
31. *Interpretation of AMS-02 electrons and positrons data*
M. Di Mauro, F. Donato, N. Fornengo, R. Lineros and A. Vittino
JCAP *1404*, 006 (2014)
32. *Diffuse γ -ray emission from unresolved BL Lac objects*
M. Di Mauro, F. Donato, G. Lamanna, D. A. Sanchez and P. D. Serpico
Astrophys. J. *786*, 129 (2014)
33. *Diffuse γ -ray emission from misaligned active galactic nuclei*
M. Di Mauro, F. Calore, F. Donato, M. Ajello and L. Latronico
Astrophys. J. *780*, 161 (2014)
34. *Constraining dark matter annihilation with the isotropic γ -ray background: updated limits and future potential*
T. Bringmann, F. Calore, M. Di Mauro and F. Donato
Phys. Rev. D *89*, 023012 (2014)
35. *Secondary Cosmic Ray Nuclei from Supernova Remnants and Constraints to the Propagation Parameters*
N. Tomassetti and F. Donato
Astron. & Astrophys. *544*, A16 (2012)
36. *Radio data and synchrotron emission in consistent cosmic ray models*
T. Bringmann, F. Donato and R. A. Lineros
JCAP *1201*, 049 (2012)

37. *Conservative upper limits on WIMP annihilation cross section from Fermi-LAT γ -rays*
F. Calore, V. De Romeri and F. Donato
Phys. Rev. D *85*, 023004 (2012)
38. *p, He, and C to Fe cosmic-ray primary fluxes in diffusion models: Source and transport signatures on fluxes and ratios*
A. Putze, D. Maurin and F. Donato
Astron. & Astrophys. *526*, A101 (2011)
39. *Discrepant hardenings' in cosmic ray spectra: a first estimate of the effects on secondary antiproton and diffuse gamma-ray yields*
F. Donato and P. D. Serpico
Phys. Rev. D *83*, 023014 (2011)
40. *Galactic electrons and positrons at the Earth: new estimate of the primary and secondary fluxes*
T. Delahaye, J. Lavalle, R. Lineros, F. Donato and N. Fornengo
Astron. & Astrophys. *524*, A51 (2010)
41. *Relic neutralinos and the two dark matter candidate events of the CDMS II experiment*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
Phys. Rev. D *81*, 107302 (2010)
42. *A constant dark matter halo surface density in galaxies*
F. Donato, G. Gentile, P. Salucci, C. Frigerio Martins, M.I. Wilkinson, G. Gilmore, E.K. Grebel, A. Koch and R. Wyse
Mon. Not. Roy. Astron. Soc. *397*, 1169 (2009)
43. *Constraints on WIMP Dark Matter from the High Energy PAMELA \bar{p}/p data*
F. Donato, D. Maurin, P. Brun, T. Delahaye and P. Salati
Phys. Rev. Lett. *102*, 071301 (2009)
44. *Galactic secondary positron flux at the Earth*
T. Delahaye, F. Donato, N. Fornengo, J. Lavalle, R. Lineros, P. Salati and R. Taillet
Astron. & Astrophys. *501*, 821 (2009)
45. *Interpreting the recent results on direct search for dark matter particles in terms of relic neutralino*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
Phys. Rev. D *78*, 083520 (2008)
46. *Antideuteron fluxes from dark matter annihilation in diffusion models*
F. Donato, N. Fornengo and D. Maurin
Phys. Rev. D *78*, 043506 (2008)
47. *Upper bounds on signals due to WIMP self-annihilation: comments on the case of the synchrotron radiation from the galactic center and the WMAP haze*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
Phys. Rev. D *77*, 127301 (2008)
48. *Positrons from dark matter annihilation in the galactic halo: theoretical uncertainties*
T. Delahaye, R. Lineros, F. Donato, N. Fornengo and P. Salati
Phys. Rev. D *77*, 063527 (2008)

49. *Zooming in on light relic neutralinos by direct detection and measurements of galactic antimatter*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
Phys. Rev. D *77*, 015002 (2008)
50. *Additional bounds on the pre Big–Bang–Nucleosynthesis Expansion by means of γ -rays from the Galactic Center*
F. Donato, N. Fornengo and M. Schelke
JCAP *0703*, 021 (2007)
51. *Do current WIMP direct measurements constrain light relic neutralinos?*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
Phys. Rev. D *72*, 083521 (2005)
52. *Antiproton fluxes from light neutralinos*
A. Bottino, F. Donato, N. Fornengo and P. Salati
Phys. Rev. D *72*, 083518 (2005)
53. *Kaluza-Klein dark matter and galactic antiprotons*
A. Barrau, P. Salati, G. Servant, F. Donato, J. Grain, D. Maurin and R. Taillet
Phys. Rev. D *72*, 063507 (2005)
54. *Diffusion coefficient and acceleration spectrum from direct measurements of charged cosmic ray nuclei*
A. Castellina and F. Donato
Astropart. Phys. *24*, 146 (2005)
55. *Cores of Dark Matter Halos Correlate with Disk Scale Lengths*
F. Donato, G. Gentile and P. Salucci
Mon. Not. Roy. Astron. Soc. *353*, L17-L22 (2004)
56. *Indirect signals from light neutralinos in supersymmetric models without gaugino mass unification*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
Phys. Rev. D *70*, 015005 (2004)
57. *Light neutralinos and WIMP direct searches*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
Phys. Rev. D *69*, 037302 (2004)
58. *Antiprotons in cosmic rays from neutralino annihilation*
F. Donato, N. Fornengo, D. Maurin and P. Salati
Phys. Rev. D *69*, 063501 (2004)
59. *Lower bound on the neutralino mass from new data on CMB and implications for relic neutralinos*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
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60. *Antideuterons as a probe of primordial black holes*
A. Barrau, G. Boudoul, F. Donato, D. Maurin, P. Salati, I. Stefanon and R. Taillet
Astron. & Astrophys. *398*, 403 (2003)
61. *New results on source and diffusion spectral features of Galactic cosmic rays: I-B/C ratio*
D. Maurin, R. Taillet and F. Donato
Astron. & Astrophys. *394*, 1039 (2002)

62. *Antiprotons from primordial black holes*
A. Barrau, G. Boudoul, F. Donato, D. Maurin, P. Salati and R. Taillet
Astron. & Astrophys. 388, 676 (2002)
63. *Size of the neutralino nucleon cross-section in the light of a new determination of the pion nucleon sigma term*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
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64. *β -Radioactive Cosmic Rays in a diffusion model: test for a local bubble?*
F. Donato, D. Maurin and R. Taillet
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65. *Antiprotons from spallation of cosmic rays on interstellar matter*
F. Donato, D. Maurin, P. Salati, A. Barrau, G. Boudoul and R. Taillet
Astrophys. J. 536, 172 (2001)
66. *Cosmic Rays below $Z=30$ in a diffusion model: new constraints on propagation parameters*
D. Maurin, F. Donato, R. Taillet and P. Salati
Astrophys. J. 555, 585 (2001)
67. *Probing the supersymmetric parameter space by WIMP direct detection*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
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68. *Further investigation of a relic neutralino as a possible origin of an annual-modulation effect in WIMP direct search*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
Phys. Rev. D 62, 056006 (2000)
69. *SUSY Higgs at the LHC: Effects of light charginos and neutralinos*
G. Belanger, F. Boudjema, F. Donato, R. Godbole and S. Rosier-Lees
Nucl. Phys. B 581, 3 (2000)
70. *Implications for relic neutralinos of the theoretical uncertainties in the neutralino nucleon cross-section*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
Astropart. Phys. 13, 215 (2000)
71. *Antideuterons as a signature of supersymmetric dark matter*
F. Donato, N. Fornengo and P. Salati
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72. *Extending the DAMA annual-modulation region by inclusion of the uncertainties in astrophysical velocities*
P. Belli, R. Bernabei, A. Bottino, F. Donato, N. Fornengo, D. Prosperi and S. Scopel
Phys. Rev. D 61, 023512 (2000)
73. *Combining the data of annual modulation effect in WIMP direct detection with measurements of WIMP indirect searches*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
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74. *Neutralino properties in the light of a further indication of an annual modulation effect in WIMP direct search*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
Phys. Rev. D 59, 095003 (1999)
75. *Compatibility of the new DAMA/NaI data on an annual modulation effect in WIMP direct search with a relic neutralino in supergravity schemes*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
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76. *Which fraction of the measured cosmic ray antiprotons might be due to neutralino annihilation in the galactic halo?*
A. Bottino, F. Donato, N. Fornengo and P. Salati
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77. *Effects of galactic dark halo rotation on WIMP direct detection*
F. Donato, N. Fornengo and S. Scopel
Astropart. Phys. 9, 247 (1998)
78. *Pinning down neutralino properties from a possible modulation signal in WIMP direct search*
A. Bottino, F. Donato, N. Fornengo and S. Scopel
Phys. Lett. B 423, 109 (1998)
79. *Exploring the supersymmetric parameter space by direct search for WIMPs*
A. Bottino, F. Donato, G. Mignola, S. Scopel, P. Belli and A. Incicchitti
Phys. Lett. B 402, 113 (1997)

Capitoli di libri

- *Indirect Dark Matter Detection with Cosmic Antimatter*
P. Salati, F. Donato and N. Fornengo
Contribution in the Book: *Particle Dark Matter: Observations, Models and Searches*, Cambridge, UK: Univ. Press (2010) 521-546, 738 p, Ed. G. Bertone; arXiv:1003.4124
- *Astrophysics of Galactic charged cosmic rays*
A. Castellina and F. Donato
Contribution in the Book: *Planets, Stars and Stellar Systems* Vol. 5, by Oswald, T.D.; Gilmore, G., ISBN 978-94-007-5611-3. Springer Science+Business Media Dordrecht, 2013, p. 725; arXiv:1110.2981

Review

Galactic cosmic ray nuclei as a tool for astroparticle physics
D. Maurin, R. Taillet, F. Donato, P. Salati, A. Barrau and G. Boudoul
Research Signposts, Recent Research Developments in Astrophysics”, arXiv:astro-ph/0212111

Presentazioni a congressi

1. *Testing the count distribution of gamma-ray sources in the extragalactic sky*
Talk at TeVPA, Sydney, December 2019

2. *Direct and indirect dark matter detection strategies*
Invited talk at Theoretical Nuclear Physics Italia, Cortona, October 2019
3. *Anisotropies in the flux of cosmic ray leptons*
Invited talk a Cosmic Ray Anisotropy Workshop 2019, GSSI, L'Aquila, Novembre 2019
4. *Anti-matter and the quest for dark matter*
Invited talk at Light Anti-Nuclei as a Probe for New Physics, Leiden, The Netherlands, Ottobre 2019
5. *Detection of a γ -ray halo around Geminga and implications for the positron flux*
Talk at TAUP, Toyama, Japan, Settembre 2019
6. *Multi messenger constraints to the emission of cosmic ray electrons*
Talk a 36th International Cosmic Ray Conference ICRC, Madison, Usa, Luglio 2019
7. *Anti-proton production cross-sections and the search for dark matter*
Invited talk a IWHSS 2019, Porto, Giugno 2019
8. *Galactic Cosmic Rays Anomalies*
Invited talk a NOW 2018 - Ostuni, Settembre 12, 2018
9. *Secondary nuclei in the Galaxy*
Invited talk a Rencontres du Vietnam - Very High Energy Phenomena in the Universe Qui Nhon, Agosto 14, 2018
10. *The power of γ -rays in the Fermi-LAT sky*
Invited review talk a ASI-INFN, Giugno 2018
11. *Understanding hadronic cross sections for cosmic ray physics*
Invited plenary talk a ISVHECRI, Nagoya, Japan, Maggio 22, 2018
12. *Recent results on antimatter cosmic rays*
Invited plenary talk a AMS days, La Palma, Aprile 13, 2018
13. *Cross sections measurements and cosmic antimatter*
Invited Cross Talk, CERN, Geneva, Dicembre 14, 2017
14. *GAPS and the search for cosmic antideuterons*
Invited plenary talk a GAPS Collaboration Meeting, San Diego, USA, Novembre 17, 2017
15. *Cosmic rays and the diffuse gamma-ray emission*
Invited plenary talk al 7th Fermi Symposium, Garmish, Germany, Ottobre 19, 2017
16. *Need for antiparticle production cross sections for interpretation of cosmic-ray data*
Invited talk a NA61/Shine Beyond 2020 Workshop, University of Geneva, Luglio 27, 2017
17. *Cosmic ray astroparticle physics: current status and future perspectives*
Invited plenary talk al 331 International Astronomical Unit Symposium on SN 1987A, 30 years later La Reunion, France, Febbraio 23, 2017
18. *Production cross sections for cosmic ray physics in space*
Invited plenary talk al Workshop on LHCb Heavy Ion and Fixed Target physics CERN, Gennaio 9, 2017

19. *The future of cosmic ray astroparticle physics*
Invited plenary talk a TeVPA Conference, CERN, Settembre 16, 2016
20. *PAMELA: open roads for the future*
Invited plenary talk a 10 Years of PAMELA, Frascati, Giugno 15, 2016
21. *Insights on cosmic rays and dark matter in the light of AMS-02 data*
Invited plenary talk a AMS general meeting CERN, Marzo 24, 2016
22. *Cross section data for indirect dark matter searches.*
Invited talk al Compass Workshop, CERN, Marzo 22, 2016
23. *Gamma-rays from Milli-second Pulsars: mimicking a dark matter signature?*
Invited plenary talk al Gamma Rays and Dark Matter workshop, Austria, Dicembre 8, 2015
24. *Cosmic rays, antimatter, dark matter: the need for cross section data*
Invited contribution alla Commissione 4 per Fisica Teorica dell'INFN, Roma, Settembre 21, 2015
25. *Galactic cosmic rays phenomenology: nuclei, antimatter, dark matter*
Invited talk a Non-Perturbative QCD Workshop, Cortona, Italy, Aprile 20, 2015
26. *Cosmic rays, antimatter, dark matter: the need for cross section data*
Invited plenary talk al Compass Analysis Meeting, CERN, Aprile 16, 2015
27. *AMS-02: precision data for fundamental physics and trigger for unexplored realms*
Invited plenary talk ad AMS general meeting CERN, Febbraio 20, 2015
28. *Galactic cosmic rays: The need for nuclear cross section data. An experiment proposal*
Invited contribution alla Commissione 1 per Fisica delle alte Energie dell'INFN, Rome, Italy, Gennaio 20, 2015
29. *Anti-matter and new physics in Cosmic Rays*
Invited plenary talk at INFN "What Next on Cosmic Rays" Padova, Italy, Dicembre 3, 2014
30. *Anisotropies in the gamma-ray sky*
Talk at Fifth Fermi Symposium, Nagoya, Japan, Ottobre 22, 2014
31. *Galactic cosmic rays: The need for nuclear cross section data*
Invited contribution at the INFN CSN3, Bari, Italy, Settembre 16, 2014
32. *An explanation to the diffuse gamma-ray emission.*
Invited talk at TeVPA/IDM 2014 - Amsterdam, Giugno 26, 2014
33. *Anisotropies in gamma-rays*
Invited plenary talk at International workshop High-Energy Messengers - KIPC, Chicago, Usa, Giugno 10, 2014
34. *Antideuteron propagation in the Galaxy*
Invited plenary talk at International Workshop Antideuteron 2014 - UCLA, Los Angeles, Usa, Giugno 6, 2014
35. *Constraining Dark Matter annihilation with the isotropic γ -ray background*
Invited plenary talk at GDR Terascale - Annecy-le-Vieux, Ottobre 29, 2013

36. *Constraining Dark Matter annihilation with the Fermi-LAT isotropic γ -ray background*
Invited talk at The gamma-ray sky - Minneapolis, USA, Ottobre 10, 2013
37. *Dark Matter searches with antimatter*
Invited plenary talk at Workshop on the Future of Dark Matter Astro-Particle Physics: Insights and Perspectives Trieste, ICTP Ottobre 8, 2013
38. *Indirect searches for Dark Matter*
Invited plenary talk at TAUP 2013, Asilomar, USA, Settembre 10, 2013
39. *Diffuse γ -rays from misaligned AGN and constraints on galactic Dark Matter*
Talk at RICAP, Rome, Maggio 22, 2013
40. *γ -ray emission from misaligned AGN*
Talk at 4th Fermi Symposium, Monterey, USA, Ottobre 31, 2012
41. *Conservative upper limits on WIMP annihilation cross section from Fermi-LAT γ -rays*
Talk at the international workshop: TAUP11, Munich, Germany, Settembre 05, 2011
42. *Dark matter in light of recent cosmic ray data*
Invited plenary talk at TeVPA, Stockholm, Sweden, Agosto 2, 2011
43. *Positrons as Dark Matter probes*
Invited plenary talk at Workshop on Indirect Dark Matter Searches, Hamburg, Germany, Giugno 14, 2011
44. *Dark matter: direct and indirect detection* Invited talk a IFAE2011, Incontri di Fisica delle Alte Energie, Perugia, Italy, Aprile 27, 2011
45. *Cosmic Rays and Dark Matter*
Invited talk all'Incontro Nazionale Iniziative di Fisica Astroparticellare, Frascati, Italy, Giugno 22, 2010
46. *Constraints from dark matter searches in cosmic antimatter*
Invited talk at GGI Conference "The Dark Matter Connection: Theory & Experiment", Florence, Italy, Maggio 14, 2010
47. *Dark matter interpretation of positron and antiproton fluxes*
Invited plenary talk at Workshop: "Cosmic Ray Backgrounds in Dark Matter Searches", Stockholm, Gennaio 25, 2010
48. *Cosmic rays propagation: constraints on the propagation parameters and perspectives*
Invited talk at Astroparticle Physics with AMS-02, Pisa, Italy, Dicembre 01, 2009
49. *Propagation of cosmic antimatter in the Galaxy*
Invited talk at Theoretical miniWorkshop on Dark Matters, UAM-Madrid, Settembre 16, 2009
50. *Cosmic ray propagation models and interpretation of results from recent space experiments*
Invited talk at 12th Marcel Grossmann Meeting On General Relativity, Paris, France, Luglio 12, 2009

51. *Galactic secondary positron flux at the Earth*
Talk at the 31th International Cosmic Ray Conference *ICRC*, Lodz, Poland Luglio 07, 2009
52. *Astroparticle Space Research*
Round table talk at Pamela Physics Workshop, Rome, Italy Maggio 10, 2009
53. *Constraints from antiproton data*
Invited plenary talk at Tango In Paris, IAP - Paris, France Maggio 04, 2009
54. *Propagation of Galactic CRs in diffusion models: matter and antimatter*
Invited talk at COSPAR 2008, Montreal, Canada, Luglio 18, 2008
55. *Dark matter tools*
Invited plenary talk at Tools08, MPI Munich, Germany, Luglio 3, 2008
56. *Dark mater in cosmic rays*
Invited talk at TeVPA, Venice, Italy, Agosto 28, 2007
57. *Propagation of primary antimatter sources*
Invited plenary talk at SciNeGHE, Frascati, Italy, Giugno 18, 2007
58. *Antideuterons from dark matter annihilation in the galactic halo*
Talk at the 30th International Cosmic Ray Conference *ICRC*, Merida, Mexico, Luglio 10, 2007
59. *Antideuterons from supersymmetric dark matter*
Talk at the 30th International Cosmic Ray Conference *ICRC*, Merida, Mexico, Luglio 10, 2007
60. *Indirect dark matter detection*
Invited plenary talk at “The Hunt for Dark Matter”, Fermilab, USA, Maggio 11, 2007
61. *Propagation properties from measurements of galactic cosmic rays*
Talk at TAUP 2005, Zaragoza, Spain, Settembre 12, 2005.
62. *Indirect signals from light neutralinos*
Talk at DESY Theory Workshop, Hamburg, Settembre 29 - Ottobre 1st, 2004.
63. *Direct and indirect detection of relic neutralinos*
Invited talk at Magic Collaboration Meeting, Pisa, Luglio 21st, 2004.
64. *Antiprotons and Cosmic Ray Propagation*
Invited plenary talk at the international Conference: *Frontier Science 2004 - Physics and Astrophysics in Space*
Villa Mondragone and LNF, Italy, Giugno, 14-19, 2004
65. *Supersymmetric antiprotons in cosmic rays*
Talk at the international workshop: *TAUP 2003*, Seattle, USA, Settembre 5-9, 2003
66. *Stable and radioactive nuclei in a diffusion model*
Talk at the 28th International Cosmic Ray Conference *ICRC*; Tsukuba, Japan, Luglio 31 - Agosto 7, 2003
67. *“Antimatter in cosmic rays: the dark matter – cosmic rays connection”*
Talk at the international workshop: XIV Rencontre de Blois, Giugno 16-22, 2002

68. “*Antiprotons from spallation of cosmic rays on ISM*”
Talk at the international workshop: *TAUP 2001*; Laboratori Nazionali del Gran Sasso, Italy, Settembre 8-12, 2001.
69. “*Antiprotons from spallation of cosmic rays on interstellar matter*”
Talk at the 27th International Cosmic Ray Conference *ICRC*; Hamburg, Germany, Agosto 7-15, 2001.
70. “*Dark matter and cosmic rays*”
Invited plenary talk at the international workshop: *Physics at TeV Colliders* Les Houches, France, Maggio 29, 2001.
71. “*Materia oscura supersimmetrica*”
Talk at the Convegno informale di Fisica Teorica *Cortona 2000* Cortona, Italy, Maggio 31 - Giugno 3, 2000.
72. “*New calculation of the secondary antiproton flux and possible contribution from neutralino annihilation in the halo*”
Talk at the international conference *DARK MATTER 2000*, Marina del Rey, Ca, Febbraio, 22-24 2000.
73. “*Neutralinos as relic particles*”
Talk at the international conference: *COSMO99*, Trieste, Settembre, 28 - Ottobre, 2, 1999.
74. “*Antideuterons as a signature of neutralino annihilation in the galactic halo*”
Talk at the international workshop: *TAUP99*, Paris, France, Settembre, 5-9, 1999.
75. “*Antimatter from neutralino annihilation*”
Talk at the international conference: *Particles in Astrophysics and Cosmology: From Theory to Observation* Valencia, Spain, Maggio, 3-8, 1999.
76. “*Antimatter from neutralino annihilation*”
Talk at the international workshop: *Tools for Susy* Lyon, France, Marzo, 31 - Aprile, 2, 1999.
77. “*Antiprotons from neutralino annihilation*”
Talk at: *Rencontre des Particules* LAPP, Annecy-le-Vieux, France, Gennaio, 13-15, 1999.
78. “*Cosmic-ray antiprotons from neutralino annihilation in the halo*”
Talk at the international conference: *IDM98* Buxton, England, Settembre, 7-11, 1998.
79. “*Neutralino dark matter: a possible signature from low-energy antiprotons*”
Talk at the international conference: *From the Planck scale to the electroweak scale* Kazimierz, Poland, Maggio 24-29, 1998.
80. “*Neutralino properties from a possible modulation signal in WIMP direct search*”
Talk at the international workshop: *TAUP97* Laboratori Nazionali del Gran Sasso, Italy, Settembre 7-11, 1997.

Seminari

1. *Dark matter in the Galaxy*
Seminario a Queen Mary University of London, Febbraio 28, 2019

2. *Dark matter in the Galaxy*
Seminario a Southampton University, Marzo 1, 2019
3. *Dark matter in the Galaxy*
Seminario al Niels Bohr Institute, Copenhagen, Ottobre 30, 2017
4. *Dark Matter in the Galaxy*
Seminario all'Università di Firenze, Aprile 28, 2017
5. *Antimatter in the Galaxy: Open problems for fundamental physics*
Seminario al Gran Sasso Science Institute, Novembre 23, 2016
6. *Antimatter in the Galaxy: Open problems for fundamental physics*
Seminario ad Aachen University, Giugno 9, 2016
7. *Antimatter in the Galaxy*
Seminario all'Astrophysics Dept. Princeton University, Aprile 22, 2016
8. *Dark matter and the cosmic radiation: weak signals, great opportunities*
Seminario al Physics Dept. Princeton University, Aprile 19, 2016
9. *Dark matter and the cosmic radiation*
Colloquium a Stanford KIPAC, Aprile 14, 2016
10. *Dark matter in the cosmic radiation: weak signals, great opportunities*
Seminario a Amsterdam University, Febbraio 22, 2016
11. *Dark matter in cosmic rays: where we stand? which are the challenges?*
Seminario alla Technische Universitaet, TUM, Munich, Febbraio 1, 2016
12. *Interpretation of the AMS-02 data on antimatter*
Seminario al MIT, Boston, Novembre 2, 2015
13. *The dark matter in the gamma-rays*
Seminario all'Institut de Physique Théorique CEA/Saclay, Febbraio 3, 2015
14. *Phenomenology and Models for Dark Matter*
Seminario all'Università La Sapienza, Roma, Gennaio 20, 2014
15. *Searching for dark matter in the cosmic radiation*
Seminario a Southampton University, UK, Marzo 16, 2012
16. *Cosmic antimatter: is there room for exotic sources?*
Seminario a IFIC, Valencia, Spain, Febbraio 26, 2010
17. *Cosmic antimatter from dark matter annihilation and astrophysical sources*
Seminario a Desy Lab., Hamburg, Novembre 11, 2009
18. *Antideuterons in cosmic rays*
Seminario a Columbia University, USA, Luglio 21, 2008
19. *The search for dark matter in cosmic rays*
Seminario a Universidad Autonoma, Madrid, Marzo 25, 2008
20. *New Physics in cosmic rays*
Seminario a Fermilab, USA, Maggio 14, 2007
21. *Indirect dark matter detection*
Seminario a LPNHE, Paris, Marzo 29, 2007

22. *Cosmic rays and dark matter signals: which perspectives for AMS?*
Seminario a AMS Meeting, Pisa, Febbraio 27, 2007
23. *Indirect dark Matter Detection*
Seminario a INFN, Pisa, Febbraio 27, 2007
24. *Cosmic rays and exotic physics*
Seminario all'Università di Tor Vergata, Roma, Novembre 10, 2006
25. *Light relic neutralinos and astrophysical issues*
Seminario a Stockholm University, Sweden, Giugno 14, 2005.
26. *Exotic dark matter in space*
Seminario a Bonn University, Germany, Giugno 12, 2005.
27. *Galactic cosmic ray features from future experiments*
Seminario a MPE, Garching, Germany, Marzo 03, 2005.
28. *Correlation between galactic scale-lengths*
Seminario a LAPTH, Annecy-le-Vieux, France, Ottobre 20, 2004.
29. *Galactic cosmic rays and the search for new physics*
Colloquium all'Osservatorio Astrofisico di Arcetri, Firenze, Italy, Gennaio 15, 2004.
30. *Antimatter and dark matter*
Seminario a University of Zurich, Switzerland, Dicembre 03, 2003
31. *Galactic cosmic rays as a tool for astroparticle physics*
Seminario alla Scuola Normale Superiore, Pisa, Italy, Novembre 20, 2003
32. *Relic antiprotons and antideuterons*
Seminario all'Università di Bologna, Italy, Marzo 27, 2003
33. *Source and diffusion spectral features of galactic cosmic rays: B/C ratio*
Seminario all'Università di Bologna, Italy, Marzo 26, 2003
34. *Antimatter in cosmic rays*
Seminario al Max Planck für Physik, München, Germany, Giugno 30, 2003
35. *"Propagation of galactic cosmic rays and antiprotons in the Galaxy"*
Seminario all'Università degli Studi di Torino
Dicembre 10, 2001.
36. *"Cosmic rays and secondary antiprotons"*
Seminario al Dépt. de Physique Théorique, Université de Genève
Geneva, Switzerland, Marzo 30, 2001.
37. *"Dark matter and cosmic rays"*
Seminario a LPMT, Université de Montpellier II; Montpellier, France, Marzo 7,
2001.
38. *"Standard and exotic cosmic rays: recent results and AMS potentials"*
Seminario a CERN, AMS Collaboration Analysis meeting.
CERN, Geneva, Novembre 24, 2000.
39. *"Dark matter signatures in cosmic-ray antideuterons"*
Seminario a LAPP, Annecy-le-Vieux, France, Dicembre, 17, 1999.
40. *"Signals from supersymmetric dark matter"*
Seminario alla SISSA, Trieste, Italy, Aprile 28, 1998.

Proceedings selezionati

1. *Probing the gamma-ray source populations with photon count statistics and anisotropies*
S. Manconi, F. Donato, N. Fornengo, et al.
2019, 36th International Cosmic Ray Conference (ICRC2019), 36, 581
2. *Detection of a gamma-ray halo around Geminga with the Fermi-LAT and implications for the positron flux*
S. Manconi, M. Di Mauro, & F. Donato
2019, 36th International Cosmic Ray Conference (ICRC2019), 36, 580
3. *Production cross sections of cosmic antiprotons in the light of new data from the NA61 and LHCb experiments*
f. Donato, M. Korsmeier, & M. Di Mauro
2019, 36th International Cosmic Ray Conference (ICRC2019), 36, 61
4. *Multi-messenger constraints to the local emission of cosmic-ray electrons*
F. Donato, S. Manconi, & M. Di Mauro
2019, 36th International Cosmic Ray Conference (ICRC2019), 36, 60
5. *Galactic Cosmic Rays Anomalies*
F. Donato
PoS NOW 2018, 051 (2019)
6. *Prospects for the detection of synchrotron halos around middle-age pulsars*
M. Di Mauro, S. Manconi, & F. Donato
2019, Bulletin of the American Astronomical Society, 51, 183 (2019)
7. *Detection of a gamma-ray halo around Geminga with the Fermi-LAT and implications for the positron flux*
M. Di Mauro, S. Manconi, & F. Donato
2019, AAS/High Energy Astrophysics Division
8. *Cosmic ray astroparticle physics: current status and future perspectives*
F. Donato
IAU Symp. 331, 220 (2017)
9. *Theoretical interpretation of Pass 8 Fermi-LAT $e^+ + e^-$ data*
A. Vittino, M. Di Mauro, S. Manconi, F. Donato and N. Fornengo
PoS ICRC 2017, 259 (2018)
10. *Spotting imprints of dark matter in the extragalactic gamma-ray sky with photon counts statistics*
H. Zechlin, S. Manconi and F. Donato
PoS ICRC 2017, 922 (2018)
11. *Theoretical interpretation of Pass 8 Fermi-LAT $e^+ + e^-$ data*
A. Vittino, M. Di Mauro, S. Manconi, et al.
2017, 35th International Cosmic Ray Conference (ICRC2017), 301, 259
12. *Anisotropies in the flux of cosmic ray electrons and positrons*
S. Manconi, F. Donato and M. Di Mauro
J. Phys. Conf. Ser. 841, no. 1, 012006 (2017)
13. *Statistical measurement of the gamma-ray source-count distribution as a function of energy*

- H.-S. Zechlin, A. Cuoco, F. Donato, N. Fornengo and M. Regis
AIP Conf. Proc. 1792, no. 1, 070020 (2017)
14. *Messengers of the Universe*
F. Donato and J. Knapp
Nucl. Part. Phys. Proc. 265-266, 352 (2015)
 15. *Status of cosmic-ray antideuteron searches*
P. von Doetinchem *et al.*
PoS ICRC 2015, 1218 (2016)
 16. *The USINE cosmic-ray propagation code and recent results from an MCMC analysis*
A. Putze, L. Derome and F. Donato
Proc. of 32nd International Cosmic Ray Conference (ICRC 2011)
 17. *Gamma rays from Galactic pulsars*
F. Calore, M. Di Mauro and F. Donato
Nucl. Part. Phys. Proc. 265-266, 236 (2015)
 18. *Indirect searches for dark matter*
F. Donato
Phys. Dark Univ. 4, 41 (2014)
 19. *Diffuse γ -ray emission from misaligned active galactic nuclei*
M. Di Mauro, F. Donato and F. Calore.
Proceedings of the 48th Rencontres de Moriond on Very High Energy Phenomena in the Universe, arXiv:1305.4200
 20. *Galactic synchrotron emission from astrophysical electrons*
R. A. Lineros, T. Bringmann and F. Donato
J. Phys. Conf. Ser. 375, 012037 (2012)
 21. *Cosmic ray propagation models and interpretation of results from recent space experiments*
F. Donato
Proceeding of 12th Marcel Grossmann Meeting on General Relativity
 22. *Les Houches 2011: Physics at TeV Colliders New Physics Working Group Report*
G. Brooijmans, *et al.*, arXiv:1203.1488
 23. *Conservative upper limits on WIMP annihilation cross section from Fermi-LAT γ -rays*
F. Donato, F. Calore and V. De Romeri
J. Phys. Conf. Ser. 375, 012039 (2012), arXiv:1112.4171
 24. *Anti-Matter in Cosmic Rays: Backgrounds and Signals*
T. Delahaye *et al.*
Proceedings of 44th Rencontres de Moriond EW 2009: Electroweak Interactions and Unified Theories, arXiv:0905.2144
 25. *Science with the new generation high energy gamma- ray experiments*
M. Alvarez *et al.*
The proceedings of 5th Workshop on Science with the New Generation High Energy Gamma-ray Experiments (SciNe-GHE07), Frascati, Rome, Italy, 18-20 Jun 2007, arXiv:0712.1548

26. *Gamma-rays, antimatter and the cosmological evolution of the universe*
M. Schelke, R. Catena, F. Donato, N. Fornengo, A. Masiero and M. Pietroni
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