

LIST OF PUBLICATIONS

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The COOLER code: a novel analytical approach to calculate sub-cellular energy deposition by internal electron emitters.

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[53] W. Friedland, E. Schmitt, P. Kunderát, M. Dingfelder, G. Baiocco, S. Barbieri, A. Ottolenghi
Comprehensive track-structure based evaluation of DNA damage by light ions from radiotherapy-relevant energies down to stopping

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[52] J. Morini, G. Babini, S. Barbieri, G. Baiocco, A. Ottolenghi
The Interplay between Radioresistant Caco-2 Cells and the Immune System Increases Epithelial Layer Permeability and Alters Signaling Protein Spectrum

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G. BAIOTTO

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G. BAIOTTO

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Measurements of Dynamical Dipole in isospin asymmetric fusion reactions

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Measurement of isospin mixing at a finite temperature in ^{80}Zr via giant dipole resonance decay

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G. BAIOTTO

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Act. Phys. Pol. B, 42, 3 619 (2011) - WOS:000289009300035

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F.C.L. Crespi, D. Montanari, O. Wieland

Light charged particles distribution and fission fragments selection in $^{48}\text{Ti}+^{40}\text{Ca}$ at 600 MeV

Act. Phys. Pol. B, 42, 3 639 (2011) - WOS:000289009300038

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Search for Jacobi shape transition in hot rotating ^{88}Mo nuclei through giant dipole resonance decay

Act. Phys. Pol. B, 42, 3 633 (2011) - WOS:000289009300037

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Measurement of isospin mixing in Zr-80 at finite temperature

AIP Conference Proceedings 1377, 51-55 (2011) - WOS:000302905800008

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Measurement of isospin mixing in hot Zr-80 compound nucleus

Proceedings of the International School of Physics Enrico Fermi 178, 391 (2011) - WOS:000350800900017

[1] A. Giaz, A. Corsi, F. Camera, A. Bracco, F.C.L. Crespi, S. Leoni, R. Nicolini, V. Vandone, G. Benzoni, N. Blasi, S. Brambilla, B. Million, O. Wieland, T. Marchi, V.L. Kravchuk, M. Cinausero, M. Degerlier, F. Gramegna, V. Rizzi, P. Bednarczyk, M. Ciemala, M. Kmiecik, A. Maj, K. Mazurek, W. Meczynski, G. Baiocco, M. Bruno, M. D'Agostino, L. Morelli, G. Vannini, S. Barlini, L. Bardelli, M. Bini, S. Carboni, G. Casini, M. Chiari, A. Nannini, G. Pasquali, S. Piantelli, G. Poggi, A. Ordine, R. Alba, C. Maiolino, D. Santonocito, M. Colonna, M. Di Toro, C. Rizzo, D. Montanari

New studies of the dynamical dipole in asymmetric heavy-ion reactions: A probe of the nuclear equation of state

Proceedings of the International School of Physics Enrico Fermi 178, 407 (2011) - WOS:000350800900019

G. BAIOTTO

LECTURES, CONTRIBUTIONS TO WORKSHOPS AND CONFERENCES

selection, presenter when first author

2017

[46] G. Baiocco, S. Barbieri, G. Babini, J. Morini, D. Alloni, E. Schmitt, P. Kundrát, W. Friedland, M. Puchalska, U. Giesen, R. Nolte, A. Ottolenghi

At the Physics-Biology Interface: the Neutron Affair

Neutron and Ion Dosimetry Symposium NEUDOS13, May 2017, Kraków, Poland

[45] G. Baiocco, M. Vuolo, L. Bocchini, M. Giraud, C. Lobascio, T. Gheysens, A. Ottolenghi

Radiation protection for astronauts in case of solar particle events

EURADOS Annual Meeting - AM2017, February 2017, Karlsruhe, Germany

2016

[44] G. Baiocco

(invited) PERSEO - PErsonal Radiation Shielding for intErplanetary missiOns

ISS Program - Increment 51/52 Science Symposium, December 2016, JSC Houston, TX, US

[43] G. Baiocco

(invited) PERSEO - PErsonal Radiation Shielding for intErplanetary missiOns

Incontro di familiarizzazione con l'astronauta ESA Paolo Nespoli, ASI - Agenzia Spaziale Italiana, November 2016, Rome, Italy

[42] M. Siragusa, G. Baiocco, P. Fredericia, T. Groesser, M. Jensen, A. Ottolenghi

COOLER: a tool to calculate local energy deposition at the sub-cellular level

2016 RRS Annual Meeting, October 2016, Waikoloa, Hawaii, US

[41] W. Friedland, E. Schmitt, P. Kundrát, A. Ottolenghi, G. Baiocco, S. Barbieri, D. Alloni, M. Dingfelder

Modelling DNA damage at light ions' track ends

2016 RRS Annual Meeting, October 2016, Waikoloa, Hawaii, US

[40] W. Friedland, P. Kundrát, E. Schmitt, A. Ottolenghi, G. Baiocco, M. Dingfelder, B. Brzozowska, A. Wojcik

Late effects due to low doses of different radiation quality – what can we learn from track structure calculations?

2016 RRS Annual Meeting, October 2016, Waikoloa, Hawaii, US

[39] G. Baiocco, S. Barbieri, G. Babini, J. Morini, D. Alloni, W. Friedland, P. Kundrát, E. Schmitt, M. Puchalska, L. Sihver, A. Ottolenghi

(invited) An ab-initio approach to trace back the physical origin of neutron biological effectiveness as a function of energy

Radiation Protection Week, September 2016, Oxford, UK

[38] G. Baiocco

(invited) I neutroni secondari in terapia con particelle cariche e la loro efficacia biologica

Corso Residenziale IEO: "Aggiornamenti in FSA", June 2016, Milan, Italy

[37] G. Baiocco, V. Smyth, K. Trott, A. Ottolenghi

(invited) The ANDANTE Project: a multidisciplinary evaluation of the risk from neutrons relative to photons

Panel discussion: Challenges in Low Dose Radiation research

14th Congress of the International Radiation Protection Association - IRPA14, May 2016, Cape Town, SA

[36] G. Baiocco, S. Barbieri, G. Babini, J. Morini, D. Alloni, W. Friedland, P. Kundrát, E. Schmitt, M. Puchalska, L. Sihver, A. Ottolenghi

Neutron induced DNA damage using transport and track structure calculations

EURADOS Annual Meeting - AM2016, February 2016, Milan, Italy

[35] M. Siragusa, G. Baiocco, P. Fredericia, T. Groesser, M. Jensen, A. Ottolenghi

An analytical approach to calculate local energy deposition at the sub-cellular level

EURADOS Annual Meeting - AM2016, February 2016, Milan, Italy

2015

[34] A. Ottolenghi, D. Alloni, G. Babini, G. Baiocco, L. Mariotti, J. Morini, V. Smyth, W. Friedland, P. Kundrát, E. Schmitt, S. Tapio, A. Sriharshan, Z. Barjaktarovic, M. Aichler, M. Tschöp.

DoReMi research on Mitochondria - The INITIUM project (Track structures and initial events: an integrated approach to assess the issue of radiation quality dependence)

DoReMi workshop "Mitochondria and Radiation", December 2015, Munich, Germany

[33] W. Friedland, P. Kundrát, E. Schmitt, G. Baiocco, S. Barbieri, D. Alloni, A. Ottolenghi

G. BAIOTTO

TREND - TRacking damage at ion track ENDS - Task 5.6 ad-hoc extension
Final DoReMi meeting, December 2015, Budapest, Hungary

[32] G. Baiocco, S. Barbieri, G. Babini, J. Morini, D. Alloni, W. Friedland, P. Kunderát, E. Schmitt, M. Puchalska, L. Sihver, A. Ottolenghi

Neutron biological effectiveness as a function of energy with transport and track structure calculations
Final DoReMi meeting, December 2015, Budapest, Hungary

[31] A Ottolenghi, D. Alloni, G Babini, G Baiocco, J Morini, D Scannicchio, V Smyth

Research on radiation quality and hadron therapy: where are we? What is to be done?
Technical Meeting (TM), Radiobiology of Charged Particle Therapy (RBPT) IAEA Headquarters, VIC, November 2015, Vienna, Austria

[30] A. Ottolenghi, G. Baiocco, V. Smyth, K. Trott,, K. Manda, N. Hosper, R. Schulte, U. Schneider, L. Walsh, et al.
The ANDANTE Project (MultidisciplinAry evaluatiON of the cancer risk from neutrons relative to photons using stem cells and the induction of second malignAnt Neoplasms following paediaTric radiation thErapy).

MELODI 7th Workshop, Next Generation Radiation Protection Research, Munich, 9 – 11 November 2015

[29] A. Ottolenghi, G. Baiocco, M. Siragusa, D. Alloni, G. Babini, S. Barbieri, J. Morini

Proposal for an organisation of the task on “dosimetry”, including track structure and links with radiobiology
Crosscutting support to improved knowledge on tritium management in Fission&Fusion facilities. International Workshop: Bruxelles, 8-9 October 2015.

[28] M. Vuolo, G. Baiocco, M. Giraudo, C. Lobascio, A. Ottolenghi.

The PERSEO project (“PErsonal Radiation Shielding for intErplanetary missiOns”): status and perspectives.
20th Humans in Space Symposium (HIS), Prague, Czech Republic, June 29 - July 3, 2015.

[27] G. Baiocco

PERSEO: PErsonal Radiation Shielding for intErplanetary missiOns - Executive Summary of the Project
ARIADNA Day, July 2015, ESA-ESTEC, Noordwijk, Holland

[26] G. Baiocco

A comprehensive modeling approach to shed light on the physical origin of neutron biological effectiveness
15th International Congress of Radiation Research (ICRR 2015), May 2015, Kyoto, Japan

[25] A. Ottolenghi, G. Baiocco, O. Nuta, K. Trott, V. Smyth

The EUTEMPE course on Radiation Biology for Medical Physicists
4th EUTEMPE-RX meeting, March 2015, Leuven, Belgium

[24] G. Babini, J. Morini, G. Baiocco, L. Mariotti, A. Ottolenghi

UniPv Contribution to WP2.3 - WP2.3 Interactions of transformed and healthy cells: Pro- and anti-carcinogenic effects
EpiRadBio Final contractors meeting, March 2015, Regensburg, Germany

[23] G. Babini, D. Alloni, G. Baiocco, J. Morini, A. Ottolenghi

How can we translate the in vitro results into the in vivo scenario?
Modelling bystander effects for Biomedical and Environmental Research, April 2015, Stirling, Scotland

[22] A. Ottolenghi, D. Alloni, G. Babini, G. Baiocco, J. Morini, D. Scannicchio, V. Smyth

Research on radiation quality and hadrontherapy: Where are we? What is to be done?
Seminar on research activities in hadrontherapy, April 2015, CNAO, Pavia, Italy

[21] G. Babini, J. Morini, G. Baiocco, A. Ottolenghi

A Radiation-induced inflammatory response in in vitro fibroblasts is overshadowed by their response to culturing conditions
15th International Congress of Radiation Research (ICRR 2015), May 2015, Kyoto, Japan

[20] G. Baiocco

Characterization of the physical origin of neutron biological effectiveness
XVI Congress of the Italian Society on Radiation Research (SIRR), November 2014, Pavia, Italy

[19] G. Baiocco

Tracing back the physical origin of neutron biological effectiveness
6th International MELODI Workshop, PRBB October 2014, Barcelona, Spain

[18] J. Morini, G. Babini, G. Baiocco, L. Nacci, C. Maccario, M. Liotta, P. Tabarelli de Fatis, A. Minelli, M. Savio, A.

G. BAIOTTO

Ottolenghi, C. Danesino

Effetto dell'esposizione a raggi X sulla proliferazione e sul ciclo cellulare in cellule linfoblastoidi derivate da pazienti affetti da sindrome di Shwachman-Diamond

XVI Congress of the Italian Society on Radiation Research (SIRR), November 2014, Pavia, Italy

[17] G. Babini, J. Morini, L. Mariotti, M. Siragusa, G. Baiocco, M. Liotta, P. Tabarelli de Fatis, A. Ottolenghi

Studio in vitro della perturbazione indotta dalla radiazione sulla risposta infiammatoria

XVI Congress of the Italian Society on Radiation Research (SIRR), November 2014, Pavia, Italy

[16] D. Alloni, G. Babini, G. Baiocco, L. Mariotti, J. Morini, A. Ottolenghi, W. Friedland, P. Kundrat, E. Schmitt, S. Tapio, A. Sriharshan, Z. Barjaktarovic, M. Aichler, M. Tschöp

Track structures and initial events: an integrated approach to assess the issue of radiation quality dependence

DoReMi Periodical Meeting, July 2014, Munich, Germany

[15] L. Mariotti, G. Babini, J. Morini, G. Baiocco, D. Alloni, A. Ottolenghi

Non linear processes modulated by low doses of radiation exposure

40th COSPAR Scientific Assembly, August 2014, Moscow, Russia

[14] A. Ottolenghi, D. Alloni, G. Babini, G. Baiocco, J. Morini, V. Smyth, K. Trott

Early events, radiation quality and dose. The experience of the ANDANTE project

TC-IR Ionizing Radiation EURAMET Technical Committee, October 2014, Oslo, Norway

[13] G. Babini, L. Mariotti, M. Siragusa, J. Morini, G. Baiocco, M. Liotta, P. Tabarelli de Fatis, A. Ottolenghi

May the inflammatory response be considered as an example of non DNA-damage driven system?

41st Annual Meeting of the European Radiation Research Society ERR2014, September 2014, Rhodes, Greece

[12] J. Morini, G. Babini, L.G. Mariotti, G. Baiocco, L. Nacci, C. Maccario, M. Liotta, P. Tabarelli de Fatis, A. Minelli, M. Savio, A. Ottolenghi, C. Danesino

Effect of ionizing radiation exposure on proliferation and cell cycle distribution in cells derived from Shwachman-Diamond syndrome affected patients

41st Annual Meeting of the European Radiation Research Society ERR2014, September 2014, Rhodes, Greece

2013

[11] G.Baiocco for the ANDANTE Collaboration

The ANDANTE Project: a multidisciplinary approach to neutron RBE

MICROS 2013 - 16th International Symposium on Microdosimetry, October 2013, Treviso, Italy

[10] G.Baiocco

Reaction mechanism interplay in determining the biological effectiveness of neutrons as a function of energy

MICROS 2013 - 16th International Symposium on Microdosimetry, October 2013, Treviso, Italy

[9] A. Ottolenghi, D. Alloni, G. Babini, G. Baiocco, L. Mariotti

From early events to biological damage: the radiation quality issue

Italian Physics Society Meeting, September 2013, Trieste, Italy

[8] A. Ottolenghi, K. Trott, G. Baiocco, V. Smyth

The ANDANTE project: a multidisciplinary approach to neutron RBE

Fifth International MELODI Workshop, October 2013, Brussels, Belgium

2012

[7] G.Baiocco for the NUCL-EX Collaboration

Towards a Reconstruction of Thermal Properties of Light Nuclei from Fusion-Evaporation Reactions

Eurisol Topical Meeting, October 2012, Lisbon, Portugal

[6] G.Baiocco for the NUCL-EX Collaboration

Towards a Reconstruction of Thermal Properties of Light Nuclei from Fusion-Evaporation Reactions

13th International Conference on Nuclear Reaction Mechanisms, June 2012, Varenna, Italy

2011

[5] G.Baiocco for the NUCL-EX Collaboration

G. BAIOTTO

Statistical Decay of Light Hot Nuclei

International Workshop on Multifragmentation - IWM 2011, November 2011, Caen, France

[4] G.Baiocco for the NUCL-EX Collaboration

Statistical Decay of Light Hot Nuclei

XCVII Congresso Nazionale Società Italiana di Fisica, September 2011, L'Aquila, Italy

[3] G.Baiocco for the NUCL-EX Collaboration

Statistical Decay of Light Hot Nuclei

Gordon Research Conference - *Intersections Between Structure and Reactions: Pushing the Frontiers of Nuclear Science*, June 2011 New London, NH (USA)

[2] G.Baiocco for the NUCL-EX Collaboration

Statistical Decay of Light Hot Nuclei

Gordon Research Seminar

The Future of Structure and Reactions: Pushing the Frontiers of Nuclear Science

June 2011 New London, NH (USA)

2010

[1] G.Baiocco for the NUCL-EX Collaboration

Projectile Break-Up and Compound Nucleus Decay with light neutron-deficient beams provided by SPES

SPES 2010 International Workshop, November 2010, INFN Laboratori Nazionali di Legnaro (Italy)

DISSEMINATION ACTIVITIES/SEMINARS

2017

[1] G.Baiocco

(invited, italian) GUIDA alle RADIAZIONI per ESPLORATORI SPAZIALI

Ciclo di Seminari - Le radiazioni nell'industria e nella ricerca di base e spaziale - Collegio Universitario S. Caterina da Siena, March 2017, Pavia, Italy