

Stefano GIULINI CASTIGLIONI AGOSTEO – short CV

Stefano Giulini Castiglioni Agosteo is a full professor in the field of Nuclear Measurements and Instrumentation at the Politecnico di Milano. Since 1992 he has been collaborating with the TERA program for constructing a hadrontherapy centre in Italy, presently operating in Pavia (CNAO). He has been involved mainly in the radiation protection aspects of the hadrontherapy centre and in the design of an accelerator-based neutron source for boron neutron capture therapy (BNCT). Since 1996 S. Agosteo has been collaborating with the radiation protection group of CERN. In the period 1996-2000, this collaboration aimed at measuring the neutron spectra in the SPS experimental halls and the neutron yield from targets of different materials bombarded by protons and lead ion beams with momenta higher than 40 GeV/c. Other topics in the framework of this collaboration were: the calculation of attenuation curves in concrete of secondary radiation from high and intermediate energy charged hadrons on targets of various materials; the characterization of high-energy neutron detectors. His research interests are also focussed on radiation dosimetry, microdosimetry and neutron spectrometry. In particular, the research in the field of microdosimetry is addressed to the assessment of radiation quality of hadrontherapy fields. He was responsible (at the local and/or national level) for several research programs of the INFN in the field of BNCT, neutron spectrometry with silicon detectors, silicon microdosimetry and microdosimetry at the nanometric level. Presently he is the local responsible (INFN-MI) for the INFN NIRVANA (Nuovi Rivelatori per Nanodosimetria) project, aiming at studying new detectors for nanodosimetry.. He is a full member of the Working Group 6 “Computational Dosimetry” of the EURADOS, the European Radiation Dosimetry Group. He acted as the scientist in charge for the Politecnico di Milano of the ARDENT ITN Marie Curie project, funded by the EU under contract PITN-GA-2011-289198-ARDENT. In the period 2010-2017 he acted as the Chairman of the MSc Course in Nuclear Engineering of the Politecnico di Milano. He is a member of the PhD Council in Energy and Nuclear Science and Technology of the Politecnico di Milano. He is a corresponding member of the Istituto Lombardo Accademia di Scienze e Lettere. He is a member of the Editorial Board of Radiation Measurements and he acts as a reviewer for several international journals.

PUBLICATIONS

International journals

1. G. Tosi, A. Torresin, D. Zanni, S. Agosteo, A. Foglio Para, V. Sangiust, L. Zeni, M. Silari, Neutron Measurement around Medical Accelerators, *Physica Medica* 5 Suppl. 1 (1989) 161-166.
2. G. Tosi, A. Torresin, S. Agosteo, A. Foglio Para, V. Sangiust, L. Zeni, M. Silari, Neutron Measurement around Medical Electron Accelerators by Active and Passive Detection Techniques, *Medical Physics* 18(1) (1991) 54-60.
3. S. Agosteo, A. Foglio Para, M. Silari, A. Torresin, G. Tosi, Monte Carlo Simulations of Neutron Transport in a Linac Radiotherapy Room, *Nuclear Instruments and Methods-B* 72 (1992) 84-90.
4. S. Agosteo, A. Foglio Para, B. Maggioni, Neutron Fluxes in Radiotherapy Rooms, *Medical Physics* 20(2) (1993) 407-414.
5. A. Foglio Para, S. Agosteo, G.F. Cerofolini, G. Boara, Giant Neutron Trapping by a Molecular Species Produced During the Reaction of D^+ with H^- in Condensed Phase, *Fusion Technology* 23 (1993) 465-469.

6. S. Agosteo, A. Foglio Para, F. Gerardi, M. Silari, A. Torresin, G. Tosi, Photoneutron Dose in Soft Tissue Phantoms Irradiated by 25 MV X Rays, *Physics in Medicine and Biology* 38 (1993) 1509-1528.
7. S. Agosteo, A. Foglio Para, Energy and Spatial Distribution of Neutron Fluxes in Radiotherapy Rooms for a Simple Dose Estimate Method, *Nuclear Instruments and Methods-B* 93 (1994) 362-369.
8. S. Agosteo, A. Foglio Para, B. Maggioni, V. Sangiust, S. Terrani, G. Borasi, Radiation Transport in a Radiotherapy Room, *Health Physics* 68(1) (1995) 27-34.
9. S. Agosteo, G. Arduini, G. Bodei, S. Monti, F. Padoani, M. Silari, R. Tinti, G. Tromba, Shielding Calculations for a 250 MeV Hospital-Based Proton Accelerator, *Nuclear Instruments and Methods A* 374 (1996) 254-268.
10. S. Agosteo, M.G. Corrado, M. Silari, P. Tabarelli de Fatis, Shielding Design for a Proton Medical Accelerator Facility, *IEEE Transactions on Nuclear Science* 43 (1996) 705-715.
11. S. Agosteo, A. Fassò, A. Ferrari, P.R. Sala, M. Silari, P. Tabarelli de Fatis, Double Differential Distributions and Attenuation in Concrete for Neutrons Produced by 100-400 MeV Protons on Iron and Tissue Targets, *Nuclear Instruments and Methods B* 114 (1996) 70-80.
12. S. Agosteo, C. Birattari, M.G. Corrado, M. Silari, Maze Design of a Gantry Room for Proton Therapy, *Nuclear Instruments and Methods A* 382 (1996) 573-582.
13. G.F. Cerofolini, G. Boara, S. Agosteo, A. Foglio Para, Induced Surface Heterogeneity as an Autocatalytic way to Promote Acid-Base Heterogeneous Reactions, *Langmuir* 13 (1997) 913-918.
14. S. Agosteo, P. Colautti, M.G. Corrado, F. d'Errico, M. Matzke, S. Monti, M. Silari, R. Tinti, Characterisation of an Accelerator-Based Neutron Source for BNCT of Explanted Livers, *Radiation Protection Dosimetry* 70 (1997) 559-566.
15. S. Agosteo, A. Fassò, A. Ferrari, P.R. Sala, M. Silari, P. Tabarelli de Fatis, Monte Carlo Calculations as Shielding Design Tools for Heavy Charged Particle Accelerators, *Journal of Brachiterapy International*, 13 (1997) 83-88.
16. S. Agosteo, C. Birattari, M. Caravaggio, M. Silari, G. Tosi, Secondary Neutron and Photon Dose in Proton Therapy, *Radiotherapy and Oncology*, 48 (1998) 293-305.
17. S. Agosteo, C. Birattari, A. Foglio Para, E. Nava, M. Silari, L. Ulrici, Neutron Measurements in the Stray Field Produced by 158 GeV/c Lead Ion Beams, *Health Physics*, 75(6) (1998) 619-629.
18. S. Agosteo, A. Fassò, A. Ferrari, P.R. Sala, M. Silari, P. Tabarelli de Fatis, Attenuation Curves in Concrete for Neutrons Produced by 710 MeV α -Particles on Steel and Water and by 337-390 MeV/u Ne Ions on Al, Cu and Pb, *Nuclear Instruments and Methods B* 155 (1999) 102-109.
19. M. Silari, S. Agosteo, J-C. Gaborit, L. Ulrici, Radiation Produced by the LEP Superconducting RF Cavities, *Nuclear Instruments and Methods A* 432 (1999) 1-13.

20. S. Agosteo, M. Silari, L. Ulrici, Improved Response of Bubble Detectors to High-Energy Neutrons, *Radiation Protection Dosimetry*, 88(2) (2000) 149-156.
21. G. Gambarini, S. Agosteo, P. Marchesi, E. Nava, P. Palazzi, A. Pecci, G. Rosi, R. Tinti, Discrimination of Various Contributions to the Absorbed Dose in BNCT: Fricke-gel Imaging and Intercomparison with Other Experimental Results, *Applied Radiation and Isotopes*, 53 (2000) 765-772.
22. S. Agosteo, S. Altieri, G. Belli, A. Bonifas, V. Carabelli, L. Gaignon, N. Hesse, M. Maggi, J.-P. Peigneux, H. Reithler, M. Silari, P. Vitulo, M. Wegner, A facility for the Test of Large-Area Muon Chambers at High Rates, *Nuclear Instruments and Methods A* 452 (2000) 94-104.
23. S. Agosteo, C. Birattari, A. Foglio Para, M. Silari, L. Ulrici, Neutron Measurements around a Beam Dump Bombarded by High Energy Protons and Lead Ions, *Nuclear Instruments and Methods A* 459 (2001) 58-65.
24. S. Agosteo, C. Birattari, A. Foglio Para, M. Silari, L. Ulrici, FLUKA Simulations and Measurements for a Dump for a 250 GeV/c Hadron Beam, *Mathematics and Computers in Simulations* 55(1-3) (2001) 1-14.
25. G. Gambarini, S. Agosteo, U. Danesi, F. Garbellini, B. Lietti, M. Mauri, E. Nava, G. Rosi, Imaging and Profiling of Absorbed Dose in Neutron Capture Therapy, *IEEE Trans. Nucl. Sci.* 48(3) (2001) 780-784.
26. S. Agosteo, Radiation Protection at Medical Accelerators, *Radiation Protection Dosimetry* 96(4) (2001) 393-406.
27. S. Agosteo, C. Birattari, A. Foglio Para, A. Mitaroff, M. Silari, L. Ulrici, 90° Neutron Emission from High Energy Protons and Lead Ions on a Thin Lead Target, *Nuclear Instruments and Methods A* 476 (2002) 63-68.
28. S. Agosteo, G. Curzio, F. d'Errico, R. Nath, R. Tinti, Characterisation of an Accelerator-Based Neutron Source for BNCT versus Beam Energy, *Nuclear Instruments and Methods A* 476 (2002) 106-112.
29. U. Schneider, S. Agosteo, E. Pedroni, J. Besserer, Secondary Neutron Dose during Proton Therapy Using Spot Scanning, *International Journal of Radiation Oncology Biology Physics*, 53(1) (2002) 244-251.
30. S. Agosteo, A. Castoldi, L. Castellani, P. Colautti, G. D'Angelo, L. De Nardo, A. Favalli, I. Lippi, R. Martinelli, G. Tornielli and P. Zotto, A Feasibility Study of a Single Event Spectrometer Based on Semiconductor Devices, *Radiation Protection Dosimetry* 99(1-4) (2002) 343-345.
31. F. d'Errico, S. Agosteo, A.V. Sannikov, M. Silari, High-energy Neutron Dosimetry with Superheated Drop Detectors, *Radiation Protection Dosimetry* 100(1-4) (2002) 529-532.
32. S. Agosteo, C. Birattari, A. Foglio Para, L. Gini, A. Mitaroff, M. Silari and L. Ulrici, Neutron production from 158 GeV/c per nucleon lead ions on thin copper and lead targets in the angular range 30-135°, *Nuclear Instruments and Methods B* 194 (2002) 399-408.

33. S. Agosteo, L. Castellani, G. D'Angelo, F. Dal Corso, G.M. Dallavalle, M. De Giorgi, C. Fernandez, F. Gonella, I. Lippi, J. Marin, R. Martinelli, A. Montanari, F. Odorici, J.C. Oller, M. Pegoraro, G. Torromeo, R. Travaglini, M. Verlato, C. Willmott, P. Zotto, Single event effects measurements on the electronics for the CMS muon barrel detector at LHC, *Nuclear Instruments and Methods A* 489 (2002) 357-369.
34. S. Agosteo, C. Birattari, G. D'Angelo, F. Dal Corso, A. Foglio Para, I. Lippi, A. Pola, P. Zotto, Neutron Spectrometry with a Recoil Radiator-Silicon Detector Device, *Nuclear Instruments and Methods A* 515(3) (2003) 589-604.
35. S. Agosteo, T. Nakamura, M. Silari, S. Zajacova, Attenuation Curves in Concrete of Neutrons from 100 to 400 MeV per Nucleon He, C, Ne, Ar, Fe and Xe Ions on Various Targets, *Nuclear Instruments and Methods B* 217 (2004) 221-236.
36. A. Fazzi, S. Agosteo, A. Pola, V. Varoli, P. Zotto, Pulse Discrimination between Recoil Protons and Secondary Electrons for a Silicon Diode Based Neutron Spectrometer, *IEEE Transactions on Nuclear Science* 51(3) (2004) 1049-1055.
37. S. Agosteo, E. Dimovasili, A. Fassò, M. Silari, The Response of a Bonner Sphere Spectrometer to Charged Hadrons, *Radiation Protection Dosimetry* 110 (2004) 161-168.
38. S. Agosteo, G. D'Angelo, A. Fazzi, A. Foglio Para, A. Pola, L. Ventura, P. Zotto, A Recoil-Proton Spectrometer Based on a p-i-n Diode Implementing Pulse-Shape Discrimination, *Radiation Protection Dosimetry* 110 (2004) 509-516.
39. G. Gambarini, V. Klamert, S. Agosteo, C. Birattari, S. Gay, G. Rosi, L. Scolari, Study of a method based on TLD detectors for in-phantom dosimetry in BNCT, *Radiation Protection Dosimetry* 110 (2004) 631-636.
40. R. J. Tanner, J.-L. Chartier, B. R. L. Siebert, S. Agosteo, B. Großwendt, G. Gualdrini, I. Kodeli, G. P. Leuthold, S. Ménard, R. A. Price, H. Tagziria, M. Terrissol, M. Zankl, Intercomparison on the usage of computational codes in radiation dosimetry, *Radiation Protection Dosimetry* 110 (2004) 769-780.
41. S. Agosteo, G. Fehrenbacher, M. Silari, Attenuation curves in concrete of neutrons from 1 GeV/u C and U ions on a Fe target for the shielding design of RIB in-flight facilities, *Nuclear Instruments and Methods B* 226(3) (2004) 231-242.
42. S. Agosteo, C. Birattari, E. Dimovasili, A. Foglio Para, M. Silari, L. Ulrici, H. Vincke, Neutron Production from 40 GeV/c Mixed Proton/Pion Beam on Copper, Silver and Lead Targets in the Angular Range 30-135°, *Nuclear Instruments and Methods B* 229 (2005) 24-34.
43. A. Porta, S. Agosteo, F. Campi, Monte Carlo Simulations for the Design of the Treatment Rooms and Synchrotron Access Maze in the CNAO Hadrontherapy Facility, *Radiation Protection Dosimetry* 113 (2005) 266-274.
44. S. Agosteo, M. Magistris, M. Silari, Radiological considerations on multi-MW targets. Part I: Induced Radioactivity, *Nuclear Instruments and Methods A* 545 (2005) 813-822.

45. S. Agosteo, P.G. Fallica, A. Fazzi, A. Pola, G. Valvo, P. Zotto, A feasibility study of a solid-state microdosimeter, *Applied Radiation and Isotopes*, 63(5-6) (2005) 529-535.
46. S. Agosteo, A. Cammi, L. Garlati, C. Lombardi, E. Padovani, Gamma dose from activation of internal shields in IRIS reactor, *Radiation Protection Dosimetry*, 115 (2005) 86-91.
47. A. Porta, F. Campi, and S. Agosteo, Beam dumps design and local radiation protection at TERA synchrotron, *Radiation Protection Dosimetry*, 115 (2005) 222-226.
48. S. Agosteo, A. Cesana, L. Garlati, A. Pola, M. Terrani, Secondary photon fields produced in accelerator-based sources for neutron generation, *Radiation Protection Dosimetry*, 115 (2005) 363-368.
49. S. Agosteo, M. Magistris, M. Silari, Radiation protection aspects of a 4 MW target, *Radiation Protection Dosimetry*, 115 (2005) 465-469.
50. G. Gualdrini, S. Agosteo, S. Menard, R. A. Price, J.-L. Chartier, B. Grosswendt, I. Kodeli, G. P. Leuthold, B. R. L. Siebert, H. Tagziria, R. J. Tanner, M. Terrissol, and M. Zankl, QUADOS intercomparison: a summary of photon and charged particle problems, *Radiation Protection Dosimetry*, 115 (2005) 587-599.
51. S. Agosteo, G. D'Angelo, A. Fazzi, A. Foglio Para, A. Pola, L. Ventura, P. Zotto, Performance of a neutron spectrometer based on a PIN diode, *Radiation Protection Dosimetry*, 116 (2005) 180-184.
52. Stefano Agosteo and Marco Silari, Measurements of radiation fields around high-energy proton accelerators, *Radiation Protection Dosimetry*, 116 (2005) 366-373.
53. A. Fazzi, S. Agosteo, A. Pola, V. Varoli, P. Zotto, A Micrometric Thickness Silicon Diode Proposed as a Microdosimeter, *IEEE Transactions on Nuclear Science* 53(1) (2006) 312-316.
54. B. R. L. Siebert, R. J. Tanner, J.-L. Chartier, S. Agosteo, B. Grosswendt, G. Gualdrini, S. Menard, I. Kodeli, G. P. Leuthold, R. A. Price, H. Tagziria, M. Terrissol, and M. Zankl, Pitfalls and modelling inconsistencies in computational radiation dosimetry: lessons learnt from the QUADOS intercomparison. Part I: Neutrons and uncertainties, *Radiation Protection Dosimetry*, 118 (2006) 144-154.
55. R. A. Price, G. Gualdrini, S. Agosteo, S. Menard, J.-L. Chartier, B. Grosswendt, I. Kodeli, G. P. Leuthold, B. R. L. Siebert, H. Tagziria, R. J. Tanner, M. Terrissol, and M. Zankl, Pitfalls and modelling inconsistencies in computational radiation dosimetry: lessons learnt from the QUADOS intercomparison. Part II: Photons, electrons and protons, *Radiation Protection Dosimetry*, 118 (2006) 155-166.
56. A. Porta, S. Agosteo, F. Campi, M. Caresana, Comparative performance tests of the FLUKA-RQMD system and EPAX 2 previsions versus experimental data, *Radiation Protection Dosimetry* 121 (2006) 211-220.
57. S. Agosteo, P. Colautti, A. Fazzi, D. Moro, and A. Pola, A solid state microdosimeter based on a monolithic silicon telescope, *Radiat Prot Dosimetry* 122: (2006) 382-386.

58. I. Cornelius, A. Rosenfeld, M. Reinhard, A. Fazzi, D. Prokopovich, A. Wroe, R. Siegele, A. Pola, and S. Agosteo, Charge collection imaging of a monolithic ΔE -E telescope for radiation protection applications, *Radiat. Prot. Dosimetry* 122 (2006) 387-389.
59. F. Zito, E. De Bernardi, M. Schiavini, C. Canzi, F. Voltini, S. Agosteo, P. Gerundini, Analysis of Different Detector and Electronic Defects on F18-FDG images, *Nuclear Instruments and Methods A* 571 (2007) 493-497.
60. S. Agosteo, G. D'Angelo, A. Fazzi, A. Foglio Para, A. Pola, P. Zotto, Neutron Spectrometry with a Monolithic Silicon Telescope, *Radiation Protection Dosimetry* 126 (2007) 210-217 - doi 10.1093/rpd/ncm044.
61. J. Esposito, G. Rosi, S. Agosteo, The New Hybrid Thermal Neutron Facility at TAPIRO Reactor for BNCT Radiobiological Experiments, *Radiation Protection Dosimetry* 126 (2007) 69-73 - doi:10.1093/rpd/ncm015.
62. M. Caresana, S. Agosteo, F. Campi, M. Ferrarini, A. Porta, M. Silari, Sensitivity Study of CR39 Track Detector in an Extended Range Bonner Sphere Spectrometer, *Radiation Protection Dosimetry* 126 (2007) 310-313 - doi: 10.1093/rpd/ncm064.
63. M. Catalano, S. Agosteo, R. Moretti, S. Andreoli, Monte Carlo Simulation Code in Optimisation of the IntraOperative Radiation Therapy Treatment with Mobile Dedicated Accelerator, *Journal of Physics: Conference Series* 74 (2007) 012002.
64. S. Agosteo, M. Magistris, A. Mereghetti, M. Silari and Z. Zajacova, Shielding data for 100–250MeV proton accelerators: Double differential neutron distributions and attenuation in concrete, *Nucl. Instrum. Meth. B* 265 (2007) 581-598.
65. G. Gambarini, S. Agosteo, S. Altieri, S. Bortolussi, M. Carrara, S. Gay, E. Nava, C. Petrovich, G. Rosi, and M. Valente, Dose Distributions in Phantoms Irradiated in Thermal Columns of Two Different Nuclear Reactors, *Radiat Prot Dosimetry* 126 (2007) 640-644 – doi:10.1093/rpd/ncm181.
66. R. Siegele, M. Reinhard, D. Prokopovich, M. Ionescu, D.D. Cohen, A.B. Rosenfeld, I.M. Cornelius, A. Wroe, M.L.F. Lerch, A. Fazzi, A. Pola, S. Agosteo, Characterisation of a ΔE -E Particle Telescope Using the ANSTO Heavy Ion Micropobe, *Nuclear Instruments and Methods B* 260 (2007) 270-275.
67. S. Agosteo, S. Rollet, M. Silari, C. Theis, Dosimetry in Radiation Fields around High-Energy Proton Accelerators, *Radiation Measurements* 43(2-6) (2008) 1024-1032.
68. S. Agosteo, P.G. Fallica, A. Fazzi, M.V. Introini, A. Pola and G. Valvo, A pixelated silicon telescope for solid state microdosimetry, *Radiation Measurements* 43(2-6) (2008) 585-589.
69. S. Agosteo, M. Magistris, A. Mereghetti, M. Silari and Z. Zajacova, Shielding data for 100–250 MeV proton accelerators: Attenuation of secondary radiation in thick iron and concrete/iron shields, *Nucl. Instrum. Meth. B* 266 (2008) 3406-3416.
70. G. Gualdrini, R. J. Tanner, S. Agosteo, A. Pola, R. Bedogni, P. Ferrari, V. Lacoste, J.-M. Bordy, J.-L. Chartier, L. de Carlan, J.-M. Gomez Ros, B. Grosswendt, I. Kodeli, R. A. Price, S. Rollet, F. Schultz, B. Siebert, M. Terrissol, and M. Zankl, Analysis of the CONRAD

computational problems expressing only stochastic uncertainties: neutrons and protons, *Radiat Prot Dosimetry* 131 (2008) 7-14; doi:10.1093/rpd/ncn241.

71. Loic de Carlan, Robert Price, Jean-Louis Chartier, Ivan Kodeli, Bernd Siebert, Jurgen Henninger, Jonas Posselt, Gianfranco Gualdrini, Stefano Agosteo, Roberto Bedogni, Jean-Marc Bordy, Philippe Cassette, Paolo Ferrari, Jose-Maria Gomez Ros, Bernd Grosswendt, Veronique Lacoste, Andrea Pola, Sofia Rollet, Franck Schultz, S. P. Simakov, Rick Tanner, Michel Terrissol, and Maria Zankl, Analysis of computational problems expressing the overall uncertainties: photons, neutrons and electrons, *Radiat Prot Dosimetry* 131 (2008) 15-23; doi:10.1093/rpd/ncn221.
72. S. Agosteo, A. Pola, Analytical model for a monolithic silicon telescope – Response function of the E stage, *Radiation Measurements* 43(9-10) (2008) 1487-1492.
73. Alessandro Porta, Stefano Agosteo, Fabrizio Campi, and Marco Caresana, Double-differential spectra of secondary particles from hadrons on tissue equivalent targets, *Radiat. Prot. Dosimetry* 132 (2008) 29-41, doi:10.1093/rpd/ncn273.
74. S. Rollet, S. Agosteo, G. Feherenbacher, C. Hranitzky, T. Radon, M. Wind, Intercomparison of Radiation Protection Devices in a High-Energy Stray Neutron Field, Part I: Monte Carlo Simulations, *Radiation Measurements* 44 (2009) 649-659, doi: 10.1016/j.radmeas.2009.03.029.
75. B. Wiegel, S. Agosteo, R. Bedogni, M. Caresana, A. Esposito, G. Fehrenbacher, M. Ferrarini, E. Hohmann, C. Hranitzky, A. Kasper, S. Khurana, V. Mares, M. Reginatto, S. Rollet, W. Rühm, D. Schardt, M. Silari, G. Simmer, E. Weitzenegger, Intercomparison of Radiation Protection Devices in a High-Energy Stray Neutron Field, Part II: Bonner Sphere Spectrometry, *Radiation Measurements* 44 (2009) 660-672, doi: 10.1016/j.radmeas.2009.03.026.
76. M. Silari, S. Agosteo, P. Beck, R. Bedogni, E. Cale, M. Caresana, C. Domingo, L. Donadille, N. Dubourg, A. Esposito, G. Fehrenbacher, F. Fernández, M. Ferrarini, A. Fiechtner, A. Fuchs, M. J. García, N. Golnik, F. Gutermuth, S. Khurana, Th. Klages, M. Latocha, V. Mares, S. Mayer, T. Radon, H. Reithmeier, S. Rollet, H. Roos, W. Rühm, S. Sandri, D. Schardt, G. Simmer, F. Spurný, F. Trompier, C. Villa-Grasa, E. Weitzenegger, B. Wiegel, M. Wielunski, F. Wissmann, A. Zechner, M. Zielczyński, Intercomparison of radiation protection devices in a high-energy stray neutron field. Part III: Instrument response, *Radiation Measurements* 44 (2009) 673-691, doi: 10.1016/j.radmeas.2009.05.005.
77. S. Agosteo, Radiation Protection Constraints for Use of Proton and Ion Accelerators in Medicine, *Radiation Protection Dosimetry*, 137 (2009) 167-186 doi: 10.1093/rpd/ncp187.
78. S. Agosteo, M. Silari, L. Ulrici, Instrument Response in Complex Radiation Fields, *Radiation Protection Dosimetry*, 137 (2009) 51-73 doi: 10.1093/rpd/ncp186.
79. A. Wroe, R. Schulte, A. Fazzi, A. Pola, S. Agosteo, A. Rozenfeld, RBE Estimation of Proton Radiation Fields Using a ΔE -E Telescope, *Medical Physics* 36 (2009) 4486-4494.
80. S. Agosteo, A. Fazzi, G. D'Angelo, M.V. Introini, A. Pola, C. Pirovano, A. Varoli, S. Altieri, S. Stella, S. Bortolussi, P. Bruschi, Feasibility Study of a Monolithic Silicon Telescope for BNCT Applications, *Nuclear Technology* 168 (2009) 11-16.

81. S. Agosteo, A. Fazzi, G. D'Angelo, M.V. Introini, A. Pola, C. Pirovano, A. Varoli, Study of a Solid-State Microdosimeter Based on Micrometric-Sized Diodes Coupled to a Residual Energy Measurement Stage, *Nuclear Technology* 168 (2009) 185-190.
82. S. Agosteo, M. Caresana, M. Ferrarini, M. Silari, A Passive Rem Counter Based on CR39 SSNTD Coupled with a Boron Converter, *Radiation Measurements* 44 (2009) 985-987.
83. M. Caresana, M. Ferrarini, A. Pola, S. Agosteo, F. Campi, A. Porta, Study of a radiator degrader CR39 based neutron spectrometer, *Nuclear Instruments and Methods A* 620 (2010) 368-374.
84. G. Gambarini, G. Bartesaghi, S. Agosteo, E. Vanossi, M. Carrara, M. Borroni, Determination of gamma dose and thermal neutron fluence in BNCT beams from the TLD-700 glow curve shape, *Radiation Measurements* 45 (2010) 640-642.
85. S. Agosteo, Overview of Novel Techniques for Radiation Protection and Dosimetry, *Radiation Measurements* 45 (2010) 1171-1177.
86. S. Agosteo, A. Fazzi, M.V. Introini, A. Pola, V. Varoli, Improvement of the minimum detectable energy of a recoil-proton spectrometer based on a silicon telescope, *Radiation Measurements* 45 (2010) 1281-1283. doi: 10.1016/j.radmeas/2010.06.041.
87. S. Agosteo, G.A.P. Cirrone, P. Colautti, G. Cuttone, G. D'Angelo, A. Fazzi, M.V. Introini, D. Moro, A. Pola, V. Varoli, Study of a silicon telescope for solid state microdosimetry: preliminary measurements at the therapeutic proton beam line of CATANA, *Radiation Measurements* 45 (2010) 1284-1289. doi: 10.1016/j.radmeas/2010.06.051.
88. S. Agosteo, M. Caresana, M. Ferrarini, M. Silari, A dual-detector extended range rem-counter, *Radiation Measurements* 45 (2010) 1217-1219. doi: 10.1016/j.radmeas/2010.06.002.
89. S. Agosteo, A. Pola, Silicon microdosimetry, *Radiation Protection Dosimetry* 143 (2011) 409-415, doi: 10.1093/rpd/ncq408.
90. S. Agosteo, P. Colautti, I. Fanton, A. Fazzi, M.V. Introini, D. Moro, A. Pola, and V. Varoli, Study of a solid state microdosimeter based on a monolithic silicon telescope: irradiations with low-energy neutrons and direct comparison with a cylindrical TEPC, *Radiation Protection Dosimetry* 143 (2011) 432-435, doi:10.1093/rpd/ncq481.
91. S. Agosteo, M. Magistris, M. Silari, Shielding of Proton Accelerators, *Radiation Protection Dosimetry* 146 (2011) 414-424, doi: 10.1093/rpd/ncr237.
92. S. Agosteo, A. Fazzi, M.V. Introini, A. Pola, A.B. Rosenfeld, R. Shulte, A. Wroe, Study of a monolithic silicon telescope for solid state microdosimetry: Response to a 100 MeV proton beam, *Radiation Measurements* 46 (2011) 1529-1533.
93. S. Agosteo, G.A.P. Cirrone, G. D'Angelo, A. Fazzi, M.V. Introini, A. Pola, Feasibility study of radiation quality assessment with a monolithic silicon telescope: Irradiations with 62 AMeV carbon ions at LNS-INFN *Radiation Measurements* 46 (2011) 1534-1538.
94. S. Agosteo, P. Colautti, J. Esposito, A. Fazzi, M. V. Introini, A. Pola, Characterization of the energy distribution of neutrons generated by 5 MeV protons on a thick beryllium target at different emission angles, *Applied Radiation and Isotopes* 69 (2011) 1664-1667.

95. C. Ceballos, J. Esposito, S. Agosteo, P. Colautti, V. Conte, D. Moro, A. Pola, Towards the final BSA modeling for the accelerator-driven BNCT facility at INFN LNL, *Applied Radiation and Isotopes* 69 (2011) 1660-1663.
96. S. Agosteo, E. Borsato, F. Dal Corso, A. Fazzi, F. Gonella, M.V. Introini, I. Lippi, M. Lorenzoli, L. Modenese, F. Montecassiano, M. Pegoraro, A. Pola, V. Varoli, P. Zotto, Performance of a proton irradiation chamber, *Nuclear Instruments and Methods A664* (2012) 193-202.
97. S. Agosteo, R. Bedogni, M. Caresana, N. Charitonidis, M. Chiti, A. Esposito, M. Ferrarini, C. Severino, M. Silari, Characterization of extended range Bonner Sphere Spectrometers in the CERF high-energy broad neutron field at CERN, *Nuclear Instruments and Methods A694* (2012) 55-68.
98. S. Agosteo, F. Pozzi, M. Silari, L. Ulrici, Attenuation in iron of neutrons produced by 120 GeV/c positive hadrons on a thick copper target, *Nuclear Instruments and Methods B312* (2013) 36-41.
99. S. Agosteo, A. Mereghetti, E. Sagia, M. Silari, Shielding data for hadron-therapy ion accelerators: Attenuation of secondary radiation in concrete, *Nuclear Instruments and Methods B 319* (2014) 154-167.
100. S. Agosteo, G. D'Angelo, A. Fazzi, M.V. Introini, A. Pola, A monolithic silicon telescope for hadron beams: numerical and experimental study of the effect of ΔE detector geometry on microdosimetric distributions, *Progress in Nuclear Science and Technology* 4 (2014) 713-716.
101. S. Agosteo, E. Borsato, F. Dal Corso, A. Fazzi, F. Gonella, M. V. Introini, M. Lorenzoli, M. Pegoraro, A. Pola, V. Varoli, P. Zotto, Study of the direct response of a monolithic silicon telescope to charged particles at different energies, *Progress in Nuclear Science and Technology* 4 (2014) 717-720.
102. [S. Agosteo](#), M.P. Anania, [M. Caresana](#), G.A.P. Cirrone, C. De Martinis, D. Delle Side, [A. Fazzi](#), G. Gatti, D. Giove, D. Giulietti, L.A. Gizzi, L. Labate, P. Londrillo, M. Maggiore, V. Nassisi, S. Sinigardi, A. Tramontana, F. Schillaci, V. Scuderi, G. Turchetti, V. Varoli, L. Velardi, The LILIA (laser induced light ions acceleration) experiment at LNF, *Nuclear Instruments & Methods In Physics Research B* 331 (2014) 15-19.
103. G. Gambarini, E. Artuso, D. Giove, L. Volpe, S. Agosteo, L. Barcaglioni, F. Campi, L. Garlati, A. Pola, E. Durisi, M. Borroni, M. Carrara, V. Klupak, M. Marek, L. Viererbl, M. Vins, F. d'Errico, Fricke gel dosimetry in epithermal or thermal neutron beams of a research reactor, *Radiation Physics and Chemistry* 116 (2015) 21-27, dx.doi.org/10.1016/j.radphyschem.2015.03.025.
104. G. Gambarini, E. Artuso, D. Giove, M. Felisi, L. Volpe, L. Barcaglioni, S. Agosteo, L. Garlati, A. Pola, V. Klupak, L. Viererbl, M. Vins, M. Marek, Study of suitability of Fricke-gel-layer dosimeters for in-air measurements to characterize epithermal/thermal neutron beams for NCT, *Applied Radiation and Isotopes* 106 (2015) 145-150. <http://dx.doi.org/10.1016/j.apradiso.2015.07.036>.

105. S. Agosteo, A. Fazzi, M.V. Introini, M. Lorenzoli, A. Pola, A telescope detection system for direct and high resolution spectrometry of intense neutron fields, *Radiation Measurements* 85 (2016) 1-17. <http://dx.doi.org/10.1016/j.radmeas.2015.12.005/1350-4487/>
106. D. Bortot, A. Pola, S. Agosteo, S. Pasquato, M.V. Introini, P. Colautti, V. Conte, A miniaturized alpha spectrometer for the calibration of an avalanche-confinement TEPC, *Radiation Measurements* 106 (2017) 531-537.
107. D. Bortot, D. Mazzucconi, M. Bonfanti, S. Agosteo, A. Pola, S. Pasquato, A. Fazzi, P. Colautti, V. Conte, A novel TEPC for microdosimetry at nanometric level: response against different neutron fields, *Radiation Protection Dosimetry* doi: 10.1093/rpd/ncx198.
108. L. T. Tran, D. Bolst, S. Guatelli, G. Biasi, A. Fazzi, E. Sagia, D. A. Prokopovich, M. I. Reinhard, Y. C. Keat, M. Petasecca, M. L.F. Lerch, A. Pola, S. Agosteo, N. Matsufuji, M. Jackson, A. B. Rosenfeld, High spatial resolution microdosimetry with monolithic $\Delta E-E$ detector on ^{12}C beam: Monte Carlo simulations and experiment, *Nuclear Instruments and Methods A* 887 (2018) 70-80.
109. D. Mazzucconi, D. Bortot, A. Pola, S. Agosteo, S. Pasquato, A. Fazzi, P. Colautti, V. Conte, Monte Carlo simulation of a new TEPC for microdosimetry at nanometric level: Response against a carbon ion beam, *Radiation Measurements* 113 (2018) 7-13.
110. P. Colautti, V. Conte, A. Selva, S. Chiriotti, A. Pola, D. Bortot, A. Fazzi, S. Agosteo, M. Treccani, L. De Nardo, C. Verona, G. Verona Rinati, G. Magrin, G.A.P. Cirrone, F. Romano, Miniaturized microdosimeters as LET monitors: First comparison of calculated and experimental data performed at the 62 MeV/u ^{12}C beam of INFN-LNS with four different detectors, *Physica Medica* 52 (2018) 113-121.
111. P. Colautti, V. Conte, A. Selva, S. Chiriotti, A. Pola, D. Bortot, A. fazzi, S. Agosteo, M. Ciocca, Microdosimetric study at the CNAO active-scanning carbon-ion beam, *Radiation Protection Dosimetry* 180 (2018) 157-161.
112. D. Bortot, D. Mazzucconi, M. Bonfanti, S. Agosteo, A. Pola, S. Pasquato, A. Fazzi, P. Colautti, V. Conte, A novel TEPC for microdosimetry at nanometric level: response against different neutron fields, *Radiation Protection Dosimetry* 180 (2018) 172-176.
113. D. Mazzucconi, S. Agosteo, M. Ferrarini, L. Fontana, V. Lante, M. Pullia, S. Savazzi, Mixed particle beam for simultaneous treatment and online range verification in carbon ion therapy: Proof-of-concept study, *Medical Physics* 45(11) (2018) 5234-5243 <https://doi.org/10.1002/mp.13219>.
114. D. Mazzucconi, D. Bortot, A. Pola, A. Fazzi, P. Colautti, V. Conte, G. Petringa, G.A.P. Cirrone, S. Agosteo, Nano-microdosimetric investigation at the therapeutic proton irradiation line of CATANA, *Radiation Measurements* 123 (2019) 26-33.
115. D Bortot, D Mazzucconi, S Agosteo, A Pola, S Pasquato, A Fazzi, P Colautti and V Conte, Microdosimetry on nanometric scale with a new low-pressure avalanche-confinement TEPC, *Journal of Physics: Conf. Series* 1154 (2019) 012004, doi:10.1088/1742-6596/1154/1/012004.

116. D Mazzucconi, M Bonfanti, D Bortot, S Agosteo, A Pola, S Pasquato and A Fazzi, A FPGA-based software for microdosimetric data processing, *Journal of Physics: Conf. Series* 1154 (2019) 012017, doi:10.1088/1742-6596/1154/1/012017.
117. D. Mazzucconi, D. Bortot, S. Agosteo, A. Pola, S. Pasquato, A. Fazzi, P. Colautti, V. Conte, G. Petringa, A. Amico, G.A.P. Cirrone, Microdosimetry at nanometric scale with an avalanche-confinement TEPC: response against a helium ion beam, *Radiation Protection Dosimetry* 183 (1-2): (2019) 177–181 <https://doi.org/10.1093/rpd/ncy2302-s2.0-85061818121>; WOS:000489282900036.
118. A. Pola, D. Bortot, D. Mazzucconi, A. Fazzi, S. Galer, K. J. Kirkby, M. J. Merchant, H. Palmans, S. Agosteo, Characterization of a pixelated silicon microdosimeter in micro-beams of light ions, *Radiation Measurements* 133 (2020) 106296 <https://doi.org/10.1016/j.radmeas.2020.1062962-s2.0-85081735039>
119. A. Bianchi, A. Selva, P. Colautti, D. Bortot, D. Mazzucconi, A. Pola, S. Agosteo, G. Petringa, G.A.P. Cirrone, B. Reniers, A. Parisi, L. Struelens, F. Vanhavere, V. Conte, Microdosimetry with a sealed mini-TEPC and a silicon telescope at a clinical proton SOBPs of CATANA, *Radiation Physics and Chemistry* 171 (2020) 108730 <https://doi.org/10.1016/j.radphyschem.2020.1087302-s2.0-85078678887>
120. D. Mazzucconi, D. Bortot, P. Martin Rodriguez, A. Pola, A. Fazzi, P. Colautti, V. Conte, A. Selva, S. Agosteo, A wall-less Tissue Equivalent Proportional Counter as connecting bridge from microdosimetry to nanodosimetry, *Radiation Physics and Chemistry* 171 (2020) 108729 <https://doi.org/10.1016/j.radphyschem.2020.1087292-s2.0-85078402196>
121. D. Bortot, D. Mazzucconi, A. Pola, A. Fazzi, M. Pullia, S. Savazzi, P. Colautti, V. Conte, S. Agosteo, A nano-microdosimetric characterization of a therapeutic carbon ion beam at CNAO, *Radiation Physics and Chemistry* 170 (2020) 108674 <https://doi.org/10.1016/j.radphyschem.2019.1086742-s2.0-85077454155>
122. D. Mazzucconi, D. Bortot, A. Pola, S. Agosteo, Numerical modeling of the gas gain of low-pressure Tissue-Equivalent Proportional Counter, *Nuclear Instruments and Methods A* 983 (2020) 164601.
123. A Bianchi, P Colautti, V Conte, A Selva, S Agosteo, D Bortot, D Mazzucconi, A Pola, B Reniers, A Parisi, L Struelens, F Vanhavere, Linh Tran, A B Rosenfeld, G A P Cirrone and G Petringa, Microdosimetry at the 62 MeV Proton Beam of CATANA: preliminary comparison of three detectors, *Journal of Physics: Conference Series* 1662 (2020) 012006.
124. D. Mazzucconi, D. Bortot, A. Pola, S. Agosteo, A. Selva, P. Colautti and V. Conte, An Avalanche confinement TEPC as connecting bridge from micro to nanodosimetry, *Journal of Physics: Conference Series* 1662 (2020) 012023.
125. G Petringa, L Pandola, S Agosteo, R Catalano, P Colautti, V Conte, G Cuttone, K Fan, Z Mei, A Rosenfeld, A Selva and GAP Cirrone, [Monte Carlo implementation of new algorithms for the evaluation of averaged-dose and -track linear energy transfers in 62 MeV clinical proton beams](#), *Physics in Medicine and Biology* 65(23) (2020) 235043.

126. P.Colautti, [A.Bianchi](#), [A.Selva](#), [D.Bortot](#), [D.Mazzucconi](#), [A.Pola](#), [S.Agosteo](#), [G.Petringa](#), [G.A.P.Cirrone](#), [V.Conte](#), Therapeutic proton beams: LET, RBE and microdosimetric spectra with gas and silicon detectors, *Radiation Measurements* 136 (2020) 106386.
127. V Conte, S Agosteo, A Bianchi, D Bolst, D Bortot, R Catalano, G A P Cirrone, P Colautti, G Cuttone, S Guatelli, B James, D Mazzucconi, A B Rosenfeld, A Selva, L Tran, G Petringa, Microdosimetry of a therapeutic proton beam with a mini-TEPC and a MicroPlus-Bridge detector for RBE assessment, *Physics in Medicine and Biology* 65(24) (2020) 245018.

Book Sections

1. S. Agosteo, G. Bodei, R. Leone, M. Silari, Neutron Production for Boron Neutron Capture Therapy, in “The TERA Project for Oncological Hadrontherapy”, U. Amaldi and M. Silari Eds., Chapter 13, Published by INFN-LNF Divisione Ricerca, July 1994.
2. S. Agosteo, G. Bodei, S. Monti, F. Padoani, A. Rindi, R. Tinti, G. Tromba, Shielding Calculations, in “The TERA Project for Oncological Hadrontherapy”, U. Amaldi and M. Silari Eds., Chapter 16, Published by INFN-LNF Divisione Ricerca, July 1994.
3. S. Agosteo, U. Amaldi, G. Arduini, L. Badano, R. Cambria, D. Campi, L. Casalegno, M.G. Corrado, F. Gerardi, F. Gramatica, P. Knaus, R. Leone, G. Manfredi, M. Nonis, G. Pierantoni, M. Pullia, S. Rossi, M. Silari, P. Tabarelli de Fatis, *The National Centre for Oncological Hadrontherapy - Updates and Revisions*, D. Campi and M. Silari, Eds., Published by INFN-LNF, 1995.
4. S. Agosteo, F. Gerardi, E. Pozzi, P. Tabarelli de Fatis, *Il Bunker del CNAO*, in: “Il Centro Nazionale di Adroterapia Oncologica a Mirasole”, cap.7, a cura di U. Amaldi, INFN-LNF Pubblicazioni, Febbraio 1997, ISBN 88-86409-29-X.
5. S. Agosteo, F. Gerardi, F. Gramatica, R. Leone, M. Pullia, D. Scannicchio, *Linee di Trasporto e Somministrazione della Dose*, in: “Il Centro Nazionale di Adroterapia Oncologica a Mirasole”, cap.8, a cura di U. Amaldi, INFN-LNF Pubblicazioni, Febbraio 1997, ISBN 88-86409-29-X.
6. U. Amaldi, G. Brianti, S. Rossi, L. Badano, G. Borri, M. Crescenti, P. Knaus, M. Pullia, R. Cambria, F. Gerardi, F. Gramatica, R. Leone, F. Luraschi, E. Pozzi, E. Sacco, P. Tabarelli de Fatis, M. Russo, G. Tosi, S. Belletti, S. Agosteo, *Il Centro Nazionale di Adroterapia Oncologica a Mirasole – Sincrotrone e Linee di Trasporto*, TERA Group – CERN, Geneva, Switzerland, 1998.
7. S. Agosteo, FLUKA, in *Review of Monte Carlo and Deterministic Codes in Radiation Protection and Dosimetry*, Hamid Tagziria, Ed., Printed by the National Physical Laboratory, Teddington, Middlesex, UK, (2000) 54-56.
8. S. Agosteo, A. Foglio Para, G. Gambarini, L. Casalini, K.W. Burn, R. Tinti, G. Rosi, A. Festinesi, E. Nava, *Design of Neutron Beams for Boron Neutron Capture Therapy in a Fast Reactor*, in: “Current Status of Neutron capture Therapy” IAEA-TECDOC-1223 (2001) 116-125.

9. G. Gambarini, S. Agosteo, P. Marchesi, E. Nava, P. Palazzi, A. Pecci, R. Rosa, G. Rosi, R. Tinti, Three Dimensional Measurements of Absorbed Dose in BCNT by Fricke-Gel Imaging, in: "Current Status of Neutron capture Therapy" IAEA-TECDOC-1223 (2001) 152-164.
10. S. Agosteo, A. Castoldi, P. Colautti, G. D'Angelo, L. De Nardo, A. Foglio Para, I. Lippi, A. Pola, G. Tornielli, P. Zotto, Characterization of a Neutron Spectrometer Based on a P-I-N Photodiode, Proceedings of the Workshop on Radiation Dosimetry: Basic Technologies, Medical Applications, Environmental Applications, Rome (Italy), February 5-6, 2002, Frascati Physics Series Vol XXIX (2002) 151-160.
11. S. Agosteo, C. Birattari, A. Ferrari, A. Foglio Para, M. Pelliccioni, M. Silari, Extended Energy Range Neutron Dosimetry from Thermal to GeV Neutron Energy, Proceedings of the Workshop on Radiation Dosimetry: Basic Technologies, Medical Applications, Environmental Applications, Rome (Italy), February 5-6, 2002, Frascati Physics Series Vol XXIX (2002) 195-207.
12. S. Agosteo, A. Porta, M. Silari, L. Ulrici, Monte Carlo Simulations for the Design of a Hadron-Therapy Centre, in: Intercomparison on the Usage of Computational Codes in Radiation Dosimetry, Bologna, Italy, International Workshop Proceedings July 14-16 2003, G. Gualdrini and P. Ferrari, Eds., ENEA Publication, ISBN 88-8286-114-7, (2004), 53-68.
13. S. Agosteo, Problem P3: Dose Distribution of a Proton Beam in a Water Phantom, in: Intercomparison on the Usage of Computational Codes in Radiation Dosimetry, Bologna, Italy, International Workshop Proceedings July 14-16 2003, G. Gualdrini and P. Ferrari, Eds., ENEA Publication, ISBN 88-8286-114-7, (2004), 133-151.

Proceedings of international conferences:

1. S. Agosteo, A. Foglio Para, G.F. Cerofolini, The Use of Silicon Devices (Diodes, RAMs, etc.) for Alpha Particle Detection, Proceedings of the Second Workshop on Radon Monitoring in Radioprotection, Environmental and/or Earth Sciences, G. Furlan & L. Tommasino Ed., World Scientific Publishing, (1993) 247- 256.
2. S. Agosteo, G. Bodei, R. Leone, M. Silari, Monte Carlo Study of Neutron Production for BNCT, in Hadrontherapy in Oncology, U. Amaldi and B. Larsson, Eds., (1994) 525-532.
3. S. Agosteo, A. Foglio Para, Energy and Spatial Distribution of the Photoneutron Flux from a Radiotherapy Electron Accelerator, in Reactor Dosimetry ASTM-STP 1228, E. Parvin Lippincott, J.G Williams, D. W. Vehar, Eds., (1994) 618-627.
4. S. Agosteo, G. Bodei, R. Leone, M. Silari, Monte Carlo Study of a Thermal Neutron Source Generated by 11 MeV Protons and 7 MeV Deuterons, Proceedings of the First International Workshop on Accelerator-Based Neutron Sources for Boron Neutron Capture Therapy, September 11-14, 1994, Jackson, Wyoming, CONF-940976, Vol. I, (1995) 255-268.
5. S. Agosteo, A. Fassò, A. Ferrari, P.R. Sala, M. Silari, P. Tabarelli de Fatis, Double Differential Distributions, Attenuation Lengths and Source Terms for Proton Accelerator Shielding, Proceedings of the Second Specialists' Meeting on Shielding Aspects of Accelerators, Targets and Irradiation Facilities, NEA OECD Publisher (1996) 99-113.

6. S. Agosteo, M.G. Corrado, M. Silari, P. Tabarelli de Fatis, Shielding and Maze Determination for Proton Medical Accelerators, Proceedings of the Second Workshop on Simulating Accelerator Radiation Environments, CERN/TIS-RP/97-05 (1997) 113-121.
7. S. Agosteo, M. Silari, Radiation Calculations for the New Muon/Photon Test Facility at CERN, Proceedings of the Third Workshop on Simulating Accelerator Radiation Environments (SARE 3), KEK Tsukuba, Japan, May 7-9 1997, KEK Proceedings 97-5 June 1997 H/R/D, (1997) 216-232.
8. F. Casali, S. Agosteo, M. Alfinito, P. Chirco, G. Rosi, M.G. Scannavini, M. Zanarini, Epithermal Neutron Beam Design for Boron Neutron Therapy at the TAPIRO Reactor in Rome, Proceedings of the 5th Asian Symposium on Research Reactors, May 29-31 1996, Taejon, Korea, Korea Atomic Energy Research Institute 1997, Volume 2, 904-909.
9. S. Agosteo, Feasibility Study for BNCT of Skin Melanoma with an Accelerator-Based Neutron Source, International Conference: Neutrons in Research and Industry, G. Vourvopoulos, Ed., Proc. SPIE 2867, (1997) 55-59.
10. S. Agosteo, G. Bodei, P. Colautti, M.G. Corrado, F. d'Errico, S. Monti, M. Silari, R. Tinti, An Accelerator-Based Thermal Neutron Source for BNCT, Proceedings of the Seventh International Symposium on Neutron Capture Therapy for Cancer, Zurich 4-7 September 1996, B. Larsson, J. Crawford, R. Weinreich, Eds., Excerpta Medica, International Congress Series 1132, Elsevier Science (1997) 483-489.
11. S. Agosteo, M.G. Corrado, P. Colautti, S. Monti, R. Tinti, G. Torielli, An Accelerator-Based Neutron Source for BNCT of Skin Melanoma, Proceedings of the International Conference on Nuclear Data for Science and Technology, May 19-24, 1997, Trieste, Italy, Conference Proceedings vol. 59 "Nuclear data for Science and Technology", G. Reffo, A. Ventura and C. Grandi, Eds., SIF Bologna 1997, 1677-1682.
12. F. Casali, S. Agosteo, M. Alfinito, K.W. Burn, P. Chirco, E. Nava, G. Rosi, M. Rossi, M. Zanarini, Design of a Facility for Boron Neutron Capture Therapy, by MCNP, in a Fast Reactor, Proceedings of the International Conference on Nuclear Data for Science and Technology, May 19-24, 1997, Trieste, Italy, Conference Proceedings vol. 59 "Nuclear data for Science and Technology", G. Reffo, A. Ventura and C. Grandi, Eds., SIF Bologna 1997, 1688-1692.
13. S. Agosteo, C. Birattari, A. Foglio Para, M. Silari, L. Ulrici, Beam Dumps for High-Energy Hadrons: from Design to Reality, Proceedings of the Fourth Workshop on Simulating Accelerator Radiation Environments (SARE4), Knoxville, Tennessee, September 14-16, 1998, T.A. Gabriel (ORNL) Ed.
14. R. Rosa, S. Agosteo, K.W. Burn, F. Casali, A. Festinesi, G. Gambarini, E. Nava, G. Rosi, R. Tinti, ENEA TAPIRO Fast Reactor: Epithermal Neutron Column for Boron Neutron Capture Therapy Experimental Program. Proceedings of the Villa Vigoni Workshop on Experimental relating to Treatment with Hadrons, Menaggio, Como, Italy, 1-4 September 1998, (1998) 42-46.
15. S. Agosteo, L. Castellani, G. D'Angelo, A. Favalli, I. Lippi, R. Martinelli, P. Zotto, First Evaluation of Neutron Induced Single Event Effects on the CMS Barrel Muon Electronics,

Proceeding of the Sixth Workshop on Electronics for LHC Experiments, Cracow, Poland, 11-15 September 2000, CERN 2000-010, CERN/LHCC/2000-041, 25 October 2000, 240-244.

16. S. Agosteo, B. Chabalier, A. Foglio Para, U. Graf, N. Huot, T. Kekki, A. Ravazzani, P. Schillebeeckx, V. Tanner, A. Tiitta, An Anti-Compton Suppression Ge-Telescope Detection System for Quality Control of Nuclear Waste Packages, Proc. 16th Conference on Application of Accelerators in Research and Industry, Denton, Texas, 1-4 November 2000, J.L. Duggan and I.L. Morgan, Eds., American Institute of Physics (2001) 555-558.
17. G. Gambarini, S. Agosteo, P. Marchesi, E. Nava, A. Pecci, G. Rosi, Three-Dimensional Measurement of Thermal Neutron Absorbed Dose for BNCT Experimental Program, Performed in a fast Research Reactor, in: Frontiers in neutron Capture Therapy, M.F. Hawthorne K. Shelly, R.J. Wiersema, Kluwer Academic / Plenum Publishers, New York (2001) 369-374.
18. S. Agosteo, P. Colautti, K.W. Burn, S. Cevolani, F. d'Errico, E. Fantuzzi, G. Fortuna, G. Gambarini, A. Pisent, G. Rosi, C.R. Rossi, R. Tinti, G. Torielli, An Experimental Program for BNCT Using a Thermal Accelerator-Based Source and the Epithermal Facility at the TAPIRO Reactor, in: Frontiers in Neutron Capture Therapy, M.F. Hawthorne K. Shelly, R.J. Wiersema, Kluwer Academic / Plenum Publishers, New York (2001) 475-482.
19. S. Agosteo, N. Colonna, P. Colautti, G. Curzio, F. d'Errico, G. Fortuna, G. Gambarini, G. Torielli, L. Tecchio and R. Tinti, An Accelerator-Based Source of Thermal Neutrons for BNCT of Skin Melanoma: Status of the Project, Proceedings of the 7th International Conference on Applications of Nuclear Techniques: Nuclear and Atomic Industrial & Analytical Applications, Crete Greece, 17 –23 June 2001, G. Vourvopoulos, Ed., Produced by Gray Spichiger, Western Kentucky University, Kentucky, USA, Published on CD ROM.
20. S. Agosteo, U. Amaldi, G. Curzio, F. d'Errico, S. Rossi, R. Tinti, A Cyclotron Based Solution for a BNCT Source, Proceedings of An International Physical and Clinical Workshop: BNCT Boron Neutron Capture Therapy: State of the Art, Candiolo (Torino) 17 February 2001, P. Gabriele, S.E. Corno, G. Scielzo, Eds., Edizioni Scientifiche MAF Servizi (2001) 37-41.
21. S. Agosteo, L. Casoli, V. Cesari, P. Colautti, N. Colonna, V. Conte, G. Curzio, L. De Nardo, F. d'Errico, G. Donà, C. Fabris, G. Fortuna, G. Gambarini, M. Geronazzo, F. Giuntini, G. Jori, M. Lollo, G. Roncucci, G. Sotti, L. Tecchio, R. Tinti, G. Torielli, Advances in the INFN-Legnaro BNCT Project for Skin Melanoma, Proceedings of An International Physical and Clinical Workshop: BNCT Boron Neutron Capture Therapy: State of the Art, Candiolo (Torino) 17 February 2001, P. Gabriele, S.E. Corno, G. Scielzo, Eds., Edizioni Scientifiche MAF Servizi (2001) 69-77.
22. N. Colonna, S. Agosteo, L. Beaulieu, E. Bisceglie, W. T. Chu, P. Colangelo, B. Ludewight, L. Phair, G. Tagliente, G. J. Wozniak, Studies of neutron production in (p,n) and (d,n) reactions for BNCT, Proceedings of: Nuclear Physics in the 21st Century: International Nuclear Physics Conference, INPC 2001, Berkeley, California (USA) 30 Jul-3 Aug 2001, AIP Conference Proceedings Vol 610(1) pp. 320-324. April 2, 2002.
23. G. Gambarini, C. Colombi, B. Lietti, S. Agosteo, K.W. Burn, E. Nava, R. Tinti, O. Fiorani, A. Perrone, G. Rosi, Measurements and Calculations of Neutron Flux and Dose Rates for an Experimental Facility at the TAPIRO Fast Reactor, Proceedings of the 10th International

Congress on Neutron Capture Therapy, “Research and Development in Neutron Capture Therapy, Essen, Germany, September 8-13, 2002, Moduzzi Editore, (2002) 367-371.

24. G. Gambarini, S. Agosteo, C. Colombi, O. Fiorani, B. Lietti, A. Perrone, P. Prestini, A. Riva, G. Rosi, In-Phantom Measurements of 3D Distribution of Dose-Components in Neutron Capture Therapy, Proceedings of the 10th International Congress on Neutron Capture Therapy, “Research and Development in Neutron Capture Therapy, Essen, Germany, September 8-13, 2002, Moduzzi Editore, (2002) 471-475.
25. G. Gambarini, C. Colombi, B. Lietti, P. Prestini, O. Fiorani, A. Perrone, G. Rosi, S. Agosteo, A. Riva, Characterization of the BNCT Experimental Column of the Fast Reactor TAPIRO (ENEA) and Dose Measurements in Phantom Utilising Not-Conventional Detection, Proceedings of the 7th International Conference on Advanced Technology and Particle Physics, Villa Olmo, Como, 15-19 October 2001, <http://hpl302.mi.infn.it>.
26. S. Agosteo, M. Magistris, T. Otto e M. Silari. Induced radioactivity in the target station and decay tunnel from a 4 MW proton beam. Proceedings of the SAFERIB Workshop, CERN, Ginevra (Svizzera), 30 October – 1 November 2002, CERN-2003-004 (2003), p. 105-114.
27. S. Agosteo, C. Birattari, M. De Marchi, A. Foglio Para, R. Moretti, C. Ongaro, F. Spreafico, A. Zanini, M. Zito, Neutron Spectrometry at Medical Accelerators, Proceedings of the workshop on Neutron Spectrometry and Dosimetry: Experimental Techniques and MC Calculations, Stocholm, Sweden, 18-20 October 2001, Otto Editore, Torino, Italy, ISBN 88-87503-80-X, (2004) 67-75.
28. S. Agosteo, T. Nakamura, M. Silari, Attenuation Curves in Concrete of Neutrons from 100-400 MeV per Nucleon He, C and Ne Ions, Proceedings of the Sixth Meeting of the Task Force on Shielding Aspects of Accelerators, Targets and Irradiation Facilities, SARE-6, Stanford Linear Accelerator, Menlo Park, CA, California, USA, 10-12 April 2002, OECD (2004) 65-75.
29. E. Fusilli, F. Zito, E. De Bernardi, M. Schiavini, C. Canzi, F. Voltini, S. Agosteo and P. Gerundini, Effect of Detector and Electronics Fault on PET Reconstructed Image Acquired with the Full Ring HR⁺, Proceedings of the 3rd European Medical and Biological Engineering Conference EMBEC05, Prague 20-25 November 2005, IFMBE Proc. 2005 11(1) 1-4, ISSN 1727-1983.
30. G. Gambarini, S. Agosteo, M. Carrara, S. Gay, M. Mariani, L. Pirola, E. Vanossi, In-phantom dosimetry for BNCT with Fricke and normoxic-polymer gels, Proc. EPS Euroconference XIX Nuclear Physics Divisional Conference, Journal of Physics: Conference Series 41 (2006) 275–281.
31. A. Pisent, P. Colautti, J. Esposito, L. De Nardo, V. Conte, S. Agosteo, G. Jori, P.A. Posocco, L.B. Tecchio, R. Tinti, G. Rosi, Progress on the accelerator based SPES-BNCT project at INFN Legnaro, Proc. EPS Euroconference XIX Nuclear Physics Divisional Conference, Journal of Physics: Conference Series 41 (2006) 391–399.
32. Juan Esposito, Paolo Colautti, Andrea Pisent, Laura De Nardo, Valeria Conte, Davide Moro, Stefano Agosteo, Giulio Jori, Renato Tinti, and Giancarlo Rosi, Current Status of the Accelerator-Driven LNL-BNCT Project, in: Advances in Neutron Capture Therapy 2006, Proceedings of the ICNCT-12, 12th International Congress on Neutron Capture Therapy “From the Past to the Future”, Kagawa 9-13 October 2006 (Japan), ISBN 4-9903242-0-X, (2006) 356-359.

33. G. Gambarini, S. Agosteo, S. Altieri, S. Bortolussi, M. Carrara, S. Gay, M. Mariani, C. Petrovich, G. Rosi, and E. Vanossi, Dose Imaging with Dose-Gel Dosimeters in Phantoms Exposed in Reactor Thermal Columns Designed for BNCT, in: Advances in Neutron Capture Therapy 2006, Proceedings of the ICNCT-12, 12th International Congress on Neutron Capture Therapy "From the Past to the Future", Kagawa 9-13 October 2006 (Japan), ISBN 4-9903242-0-X, (2006) 417-420.
34. S. Agosteo, G. Fehrenbacher, C. Hranitzky, T. Radon, S. Rollet, M. Wind, Monte Carlo Simulations of a Carbon Ion Irradiation Experiment at GSI, Proceedings of the International Workshop on Uncertainty Assessment in Computational Dosimetry: a Comparison of Approaches, Bologna, Italy, October 8-10 2007 (2008) 7 pages, available on CD, ISBN 978-3-9805741-9-8.
35. S. Agosteo, A. Pola, P1: Recoil-Proton Telescope Detector, Proceedings of the International Workshop on Uncertainty Assessment in Computational Dosimetry: a Comparison of Approaches, Bologna, Italy, October 8-10 2007 (2008) 24 pages, available on CD, ISBN 978-3-9805741-9-8.