

*Publications in Journals and Refereed Conference Proceedings (U.G. and members of my group at CSM in Italics):*

1. "New results in electron screening investigations"

S. Engstler, C. Angulo, *U. Greife*, J.F. Harmon, K. Neldner, G. Raimann, C. Rolfs, U. Schröder and E. Somorjai

Proceedings the International Symposium on Nuclear Astrophysics "Nuclei in the Cosmos", Baden, Austria, eds. H. Oberhummer and W. Hillebrandt, MPA/P4 (1990) 185-189

2. "The  $^{17}\text{O}(p,\alpha)^{14}\text{N}$  reaction at low energies"

M. Berheide, U. Schröder, S. Engstler, *U. Greife*, C. Rolfs and H.P. Trautvetter

Proceedings of the 6th Workshop on Nuclear Astrophysics, Ringberg Castle, Germany, eds. W. Hillebrandt and E. Müller, MPA/P5 (1991) 20-21

3. "Isotopic dependence of electron screening in fusion reactions"

S. Engstler, G. Raimann, C. Angulo, *U. Greife*, C. Rolfs, U. Schröder, E. Somorjai, B. Kirch and K. Langanke

Z. Phys. A 342 (1992) 471-482

4. "Test for isotopic dependence of electron screening in fusion reactions"

S. Engstler, G. Raimann, C. Angulo, *U. Greife*, C. Rolfs, U. Schröder, E. Somorjai, B. Kirch and K. Langanke

Phys. Lett. B 279 (1992) 20-24

5. "The electron screening effect on boron (p, $\alpha$ ) reactions; search for a low energy resonance"

C. Angulo, S. Engstler, W.H. Schulte, E. Somorjai, *U. Greife*, C. Rolfs and H.P. Trautvetter

Proceedings of the Second International Symposium on Nuclear Astrophysics "Nuclei in the Cosmos", Karlsruhe, Germany, eds. F. Käppeler and K. Wisshak, IOP Publishing, Bristol and Philadelphia (1992) 147-152

6. "Status report on the project Laboratory for Underground Nuclear Astrophysics (LUNA)"

C. Arpesella, C. Barnes, E. Bellotti, C. Brogini, P. Corvisiero, N. Ferrari, G. Fiorentini, A. Fubini, G. Gervino, F. Gorris, *U. Greife*, C. Gustavino, M. Junker, R. Kavanagh, G. Mezzorani, P. Prati, P. Quarati, C. Rolfs, W.H. Schulte, H.P. Trautvetter and D. Zahnow

Proceedings of the Second International Symposium on Nuclear Astrophysics "Nuclei in the Cosmos", Karlsruhe, Germany, eds. F. Käppeler and K. Wisshak, IOP Publishing, Bristol and Philadelphia (1992) 153-154

7. "Investigation of neutron producing ( $\alpha,n$ )-reactions relevant for the astrophysical s- and r

process"

H.W. Drotleff, A. Denker, H. Knee, M. Soine, G. Wolf, J.W. Hammer, *U. Greife*, C. Rolfs and H.P. Trautvetter

Proceedings of the Second International Symposium on Nuclear Astrophysics "Nuclei in the Cosmos", Karlsruhe, Germany, eds. F. Käppeler and K. Wisshak, IOP Publishing, Bristol and Philadelphia (1992) 197-202

8. "Reaction rates of the s-process neutron sources  $^{22}\text{Ne}(\alpha,n)^{25}\text{Mg}$  and  $^{13}\text{C}(\alpha,n)^{15}\text{O}$ "

H.W. Drotleff, A. Denker, H. Knee, M. Soine, G. Wolf, J.W. Hammer, *U. Greife*, C. Rolfs and H.P. Trautvetter

Astr. J. 414 (1993) 735-739

9. "Laboratory for Underground Nuclear Astrophysics (LUNA)"

*U. Greife*, C. Arpesella, C.A. Barnes, F. Bartolucci, E. Bellotti, C. Brogгинi, P. Corvisiero, G. Fiorentini, A. Fubini, G. Gervino, F. Gorris, C. Gustavino, M. Junker, R.W. Kavanagh, A. Lanza, G. Mezzorani, P. Prati, P. Quarati, W.S. Rodney, C. Rolfs, W.H. Schulte, H.P. Trautvetter and D. Zahnw

Nucl. Instrum. Methods A 350 (1994) 326-337

10. "Electron screening in the  $d+^3\text{He}$  fusion reaction"

P. Prati, C. Arpesella, F. Bartolucci, E. Bellotti, C. Brogгинi, P. Corvisiero, G. Fiorentini, A. Fubini, G.

Gervino, F. Gorris, *U. Greife*, C. Gustavino, M. Junker, A. Lanza, C. Rolfs, W.H. Schulte, H.P. Trautvetter and D. Zahnw

Z. Phys. A 350 (1994) 171-176

11. "The LUNA Project: Status and First Results"

C. Arpesella, C.A. Barnes, F. Bartolucci, E. Bellotti, C. Brogгинi, P. Corvisiero, G. Fiorentini, A. Fubini, G. Gervino, F. Gorris, *U. Greife*, C. Gustavino, M. Junker, R.W. Kavanagh, A. Lanza, G. Mezzorani, P. Prati, P. Quarati, W.S. Rodney, C. Rolfs, W.H. Schulte, H.P. Trautvetter and D. Zahnw

Proceedings of the Third International Symposium on Nuclear Astrophysics "Nuclei in the Cosmos", Assergi, Italy, eds. M. Busso, R. Gallino and C.M. Raiteri, AIP Press, New York (1994) 31-35

12. "Oppenheimer-Phillips effect and electron screening in d+d fusion reactions"

*U. Greife*, F. Gorris, M. Junker, C. Rolfs and D. Zahnw

Z. Phys. A 351 (1995) 107-112

13. "A Monte Carlo code for Nuclear Astrophysics experiments"

C. Arpesella, E. Bellotti, C. Brogгинi, P. Corvisiero, A. Fubini, G. Gervino, *U. Greife*, C. Gustavino, M. Junker, A. Lanza, P. Prati, C. Rolfs, D. Zahnw and S. Zavatarelli

Nucl. Instrum. Methods A 360 (1995) 607-615

14. "The solar neutrino puzzle and the  ${}^7\text{Be}(p,\gamma){}^8\text{B}$  reaction astrophysical factor"  
F. Terrasi, L. Campajola, A. D'Onofrio, L. Gialanella, V. Roca, M. Romano, M. Romoli, C. Rolfs, K. Brand, F. Gorris, *U. Greife*, S. Schmidt, W.H. Schulte, H.P. Trautvetter and D. Zahnow  
Workshop on Radioactive Nuclear Beams, Padova, Italy, eds. C. Signorini and A.R. Spalla, LNL-INFN (REP) 96/95 (1995) 209-218
15. "The  $d({}^7\text{Li},p){}^8\text{Li}$  cross section near  $E_{\text{cm}}=0.61$  MeV"  
F. Strieder, L. Gialanella, *U. Greife*, C. Rolfs, S. Schmidt, W.H. Schulte, H.P. Trautvetter, D. Zahnow, F. Terrasi, L. Campajola, A. D'Onofrio, V. Roca, M. Romano and M. Romoli  
*Z. Phys. A* 355 (1996) 209-18
16. "Status of the LUNA experiment"  
C. Arpesella, F. Bartolucci, E. Bellotti, C. Brogгинi, P. Corvisiero, G. Fiorentini, A. Fubini, G. Gervino, *U. Greife*, C. Gustavino, M. Junker, P. Prati, C. Rolfs, H.-P. Trautvetter, D. Zahnow and S. Zavatarelli  
Fourth International Workshop on Theoretical and Phenomenological Aspects of Underground Physics, Toledo, Spain, Nuclear Physics B, Proceedings Supplements 48 (1996) 375-7
17. "A recoil separator for the measurement of radiative capture reactions"  
L. Gialanella, F. Strieder, K. Brand, L. Campajola, A. D'Onofrio, *U. Greife*, E. Huttel, F. Petrazzuolo, V. Roca, C. Rolfs, M. Romano, M. Romoli, S. Schmidt, W.H. Schulte, F. Terrasi, H.P. Trautvetter and D. Zahnow  
*Nucl. Instrum. Methods A* 376 (1996) 174-84
18. "Production of an 8.0 MeV  ${}^7\text{Be}$  ion beam at the Naples TTT-3 accelerator"  
L. Gialanella, F. Strieder, K. Brand, L. Campajola, A. D'Onofrio, *U. Greife*, E. Huttel, F. Petrazzuolo, V. Roca, C. Rolfs, M. Romano, M. Romoli, S. Schmidt, W.H. Schulte, F. Terrasi, H.P. Trautvetter and D. Zahnow  
*Z. Phys. A* 356 (1996) 107-9
19. "Applications of accelerator mass spectrometry to nuclear astrophysics"  
L. Gialanella, K. Brand, L. Campajola, A. D'Onofrio, *U. Greife*, E. Huttel, A. Ordine, V. Roca, C. Rolfs, M. Romano, M. Romoli, S. Schmidt, W.H. Schulte, F. Strieder, F. Terrasi, H.P. Trautvetter and D. Zahnow  
19<sup>th</sup> Nuclear Physics Symposium, Oaxtepec, Mexico, *Revista Mexicana di Fisica* 42 (1996) 92-100
20. „Measurements of the  ${}^3\text{He}({}^3\text{He},2p){}^4\text{He}$  cross section within the solar Gamow peak"  
C. Arpesella, E. Bellotti, C. Brogгинi, P. Corvisiero, G. Fiorentini, A. Fubini, G. Gervino, *U. Greife*, C. Gustavino, M. Junker, J. Lambert, P. Prati, W.S. Rodney, C. Rolfs, H.P. Trautvetter, D. Zahnow and S. Zavatarelli

Phys. Lett. B 389 (1996) 452-6

21. "Accelerator mass spectrometry and its applications to nuclear astrophysics"

F. Terrasi, L. Campajola, A. D'Onofrio, L. Gialanella, V. Roca, M. Romano, M. Romoli, C. Rolfs, K. Brand, U. Greife, S. Schmidt, W.H. Schulte, F. Strieder, H.P. Trautvetter, D. Zahnow and E. Huttel  
Proceedings of the Second International Symposium: Heavy Ion Physics and its Applications, Lanzhou, China, World Scientific, Singapore, (1996) 482-91

22. "The  $d(^7\text{Li,p})^8\text{Li}$  cross section near  $E_{\text{cm}}=0.61$  MeV"

F. Strieder, L. Gialanella, U. Greife, C. Rolfs, S. Schmidt, W.H. Schulte, H.P. Trautvetter, D. Zahnow, F. Terrasi, L. Campajola, A. D'Onofrio, V. Roca, M. Romano and M. Romoli  
Proceedings of the Fourth International Symposium on Nuclear Astrophysics "Nuclei in the Cosmos",  
Notre Dame, USA  
Nucl. Phys. A 621 (1997) 123-6

23. "Experimental cross section of  $^{144}\text{Sm}(\alpha,\gamma)^{148}\text{Gd}$ "

E. Somorjai, Zs. Fülöp, A.Z. Kiss, C. Rolfs, H.P. Trautvetter, U. Greife, M. Junker, M. Arnould, M. Rayet and H. Oberhummer  
Proceedings of the Fourth International Symposium on Nuclear Astrophysics "Nuclei in the Cosmos",  
Notre Dame, USA  
Nucl. Phys. A 621 (1997) 293-6

24. "Further Direct Approaches to the Nuclear Reactions in the Sun"

U. Greife, C. Arpesella, E. Bellotti, K. Brand, C. Brogгинi, L. Campajola, P. Corvisiero, A. D'Onofrio, G. Fiorentini, A. Fubini, G. Gervino, L. Gialanella, C. Gustavino, E. Huttel, M. Junker, R.W. Kavanagh, R. Kubat, J. Lambert, G. Oliviero, P. Prati, H. Rebel, V. Roca, W.S. Rodney, C. Rolfs, M. Romano, M. Romoli, S. Schmidt, W.H. Schulte, F. Strieder, F. Terrasi, H.P. Trautvetter, D. Zahnow and S. Zavatarelli  
Proceedings of the Fourth International Symposium on Nuclear Astrophysics "Nuclei in the Cosmos",  
Notre Dame, USA  
Nucl. Phys. A 621 (1997) 603-6

25. "Laboratory for underground nuclear astrophysics (LUNA)"

M. Junker, C. Arpesella, E. Bellotti, C. Brogгинi, P. Corvisiero, G. Fiorentini, A. Fubini, G. Gervino, U. Greife, C. Gustavino, J. Lambert, P. Prati, W.S. Rodney, C. Rolfs, H.P. Trautvetter, D. Zahnow and S. Zavatarelli  
Application of Accelerators in Research and Industry, AIP Conference Proceedings 392 (1997) 337-40

26. "Experimental approach to a direct study of the nuclear reaction  $\text{H}(^7\text{Be},\gamma)^8\text{B}$ "

U. Greife, K. Brand, L. Campajola, A. D'Onofrio, L. Gialanella, E. Huttel, R. Kubat, G. Oliviero, H.

Rebel, V. Roca, C. Rolfs, M. Romano, M. Romoli, S. Schmidt, W.H. Schulte, F. Strieder, F. Terrasi, H.P. Trautvetter and D. Zahnow

Application of Accelerators in Research and Industry, AIP Conference Proceedings 392 (1997) 285-7

27. "Measurement of the  $3\text{He}(3\text{He},2\text{p})4\text{He}$  cross section within the solar Gamow peak"

C. Arpesella, E. Bellotti, C. Brogini, P. Corvisiero, G. Fiorentini, A. Fubini, G. Gervino, *U. Greife*, C. Gustavino, M. Junker, J. Lambert, P. Prati, W.S. Rodney, C. Rolfs, H.P. Trautvetter, D. Zahnow and S. Zavatarelli

International Conference on Nuclear Data for Science and Technology, Conf. Proceedings (1997) 1562

28. „ $^7\text{Be}_2$  contamination of  $^{14}\text{C}$  measurements by Accelerator Mass Spectrometry“

L. Campajola, A. D’Onofrio, A. Feoli, L. Gialanella, M.C. Morone, G. Oliviero, V. Roca, M. Romano, F. Terrasi, C. Rolfs, *U. Greife*, F. Strieder and H.P. Trautvetter

Nucl. Instrum. Methods B 140 (1998) 258-60

29. „Experimental cross section of  $^{144}\text{Sm}(\alpha,\gamma)^{148}\text{Gd}$  and implications for the p-process“

E. Somorjai, Zs. Fülöp, A.Z. Kiss, C.E. Rolfs, H.P. Trautvetter, *U. Greife*, M. Junker, S. Goriely, M. Arnould, M. Rayet, T. Rauscher and H. Oberhummer

Astronomy and Astrophysics 333 (1998) 1112-16

30. "Present status and future prospects of underground nuclear astrophysics"

*U. Greife*

Proc. Of the 2<sup>nd</sup> Oak Ridge Symp. on Atomic and Nuclear Astrophysics, ed. A. Mezzacappa, IOP Publ. (1998) 259-65

31. "Commissioning of the Daresbury Recoil Separator for Nuclear Astrophysics Measurements at the Holifield Radioactive Ion Beam Facility"

M.S. Smith, J.C. Blackmon, P.E. Koehler, T.A. Lewis, J.W. McConnell, W.T. Milner, D.E. Pierce, D. Shapira, D.W. Bardayan, A.A. Chen, P.D. Parker, K.B. Swartz, D.W. Visser, R.L. Kozub, B.A. Johnson, M.E. Roettger, A.E. Champagne, Z. Ma, *U. Greife*, F. Strieder, A.N. James, M.A. Hofstee and M. Allen  
Proc. Of the 2<sup>nd</sup> Oak Ridge Symp. on Atomic and Nuclear Astrophysics, ed. A. Mezzacappa, IOP Publ. (1998) 511-18

32. "Comparison of experimental and calculated S-factors of the p-process reaction  $^{144}\text{Sm}(\alpha,\gamma)^{148}\text{Gd}$ "

E. Somorjai, Zs. Fulop, A.Z. Kiss, C.E. Rolfs, H.P. Trautvetter, *U. Greife*, M. Junker, M. Arnould, M. Rayet, T. Rauscher and H. Oberhummer

Proc. Of the 2<sup>nd</sup> Oak Ridge Symp. on Atomic and Nuclear Astrophysics, ed. A. Mezzacappa, IOP Publ. (1998) 607-11

33. “Nuclear astrophysics studies by recoil mass separators”  
L. Gialanella, K. Brand, L. Campajola, A. D’Onofrio, *U. Greife*, M.C. Morone, G. Oliviero, A. Ordine, V. Roca, C. Rolfs, M. Romano, M. Romoli, S. Schmidt, W.H. Schulte, F. Strieder, F. Terrasi, H.P. Trautvetter and D. Zahnnow  
20<sup>th</sup> Nuclear Physics Symposium, Oaxtepec, Mexico, *Revista Mexicana di Fisica* 43 (1997) 169-77
34. “Measurement of reaction rates of interest in stellar structure and evolution”  
F. Terrasi, L. Campajola, A. D’Onofrio, L. Gialanella, *U. Greife*, G. Imbriani, V. Roca, C. Rolfs, M. Romano, O. Straniero, F. Strieder and H.P. Trautvetter  
Hirschegg ’98 Nuclear Astrophysics, Proceedings of the International Workshop XXVI on Gross Properties of Nuclei and Nuclear Excitations (1998) 378-87
35. „The cross section of  ${}^3\text{He}({}^3\text{He},2p){}^4\text{He}$  measured at solar energies“  
M. Junker, A. D’Alessandro, S. Zavatarelli, C. Arpesella, E. Bellotti, C. Brogгинi, P. Corvisiero, G. Fiorentini, A. Fubini, G. Gervino, *U. Greife*, C. Gustavino, J. Lambert, P. Prati, W.S. Rodney, C. Rolfs, F. Strieder, H.P. Trautvetter and D. Zahnnow  
*Phys. Rev. C* 57 (1998) 2700-10
36. “Electron screening in backward elastic scattering”  
F. Schümann, S. Zavatarelli, L. Gialanella, *U. Greife*, M. Junker, D. Rogalla, C. Rolfs, F. Strieder and H.-P. Trautvetter  
*European Physical Journal A* 2 (1998) 337-42
37. “Loss of  ${}^8\text{Li}$  recoil nuclei in  ${}^7\text{Li}(d,p){}^8\text{Li}$  and implications on the  ${}^7\text{Be}(p,\gamma){}^8\text{B}$  cross section”  
F. Strieder, F. Schümann, L. Gialanella, *U. Greife*, D. Rogalla, C. Rolfs, H.-P. Trautvetter, Zs. Fülöp, G. Gyürky, E. Somorjai, R.W. Kavanagh, L. Campajola, A. D’Onofrio, A. Ordine, V. Roca, M. Romano, F. Terrasi, C. Arpesella, A. D’Alessandro, C. Gustavino, M. Junker, O. Straniero, P. Corvisiero, M. Dessalvi, P. Prati, S. Zavatarelli, C. Brogгинi, G. Gervino, A. Fubini, E. Bellotti, R. Bonetti and A. Guglielmetti  
*European Physical Journal A* 3 (1998) 1-3
38. “The cross section of  ${}^3\text{He}({}^3\text{He},2p){}^4\text{He}$  measured at solar energies”  
M. Junker, C. Arpesella, E. Bellotti, C. Brogгинi, P. Corvisiero, A. D’Alessandro, G. Fiorentini, A. Fubini, G. Gervino, *U. Greife*, C. Gustavino, J. Lambert, P. Prati, W.S. Rodney, C. Rolfs, H.P. Trautvetter and S. Zavatarelli  
TAUP 97, Fifth International Workshop on Topics in Astroparticle and Underground Physics  
*Nucl. Phys. B, Proc. Suppl.* 70 (1999) 382-5
39. “First measurement of the  ${}^3\text{He}({}^3\text{He},2p){}^4\text{He}$  cross section down to the lower edge of the solar

Gamow peak”

R. Bonetti, C. Brogгинi, L. Campajola, P. Corvisiero, A. D’Alessandro, M. Dessalvi, A. D’Onofrio, A. Fubini, G. Gervino, L. Gialanella, *U. Greife*, A. Guglielmetti, C. Gustavini, G. Imbriani, M. Junker, P. Prati, V. Roca, C. Rolfs, M. Romano, F. Schuemann, F. Strieder, F. Terrasi, H.P. Trautvetter and S. Zavatarelli

Physical Review Letters 82 (1999) 5205-8

40. “Recoil separator ERNA: ion beam purification”

D. Rogalla, S. Theis, L. Campajola, A. D’Onofrio, L. Gialanella, *U. Greife*, G. Imbriani, A. Ordine, V. Roca, C. Rolfs, M. Romano, C. Sabbarese, F. Schuemann, F. Strieder, F. Terrasi and H.P. Trautvetter  
Nucl. Instrum. Meth. A 437 (1999) 266-73

41. “Recoil separator ERNA: ion beam specifications”

D. Rogalla, M. Aliotta, L. Campajola, A. D’Onofrio, E. Fritz, L. Gialanella, *U. Greife*, G. Imbriani, A. Ordine, J. Ossmann, V. Roca, C. Rolfs, M. Romano, C. Sabbarese, D. Schuermann, F. Schuemann, F. Strieder, S. Theis, F. Terrasi and H.P. Trautvetter

Eur. Phys. J. A 6 (1999) 471

42. “ The LUNA facility at the National Laboratory of Gran Sasso: recent results and future activities

P. Prati, R. Bonetti, C. Brogгинi, L. Campajola, P. Corvisiero, A. D’Alessandro, M. Dessalvi, A. D’Onofrio, S. Fubini, G. Gervino, L. Gialanella, *U. Greife*, A. Guglielmetti, C. Gustavino, M. Junker, A. Ordine, V. Roca, C. Rolfs, M. Romano, F. Schuemann, F. Strieder, F. Terrasi, H.P. Trautvetter and S. Zavatarelli

Nucl. Phys. A 654 (1999) 920-923

43. “ The program LUNA 2 at the Gran Sasso National Laboratory”

R. Bonetti, C. Brogгинi, L. Campajola, P. Corvisiero, A. D’Alessandro, M. Dessalvi, A. D’Onofrio, A. Fubini, G. Gervino, L. Gialanella, *U. Greife*, A. Guglielmetti, C. Gustavini, G. Imbriani, M. Junker, P. Prati, V. Roca, C. Rolfs, M. Romano, F. Schuemann, F. Strieder, F. Terrasi, H.P. Trautvetter and S. Zavatarelli

Zavatarelli

Experimental Nuclear Physics in Europe, ENPE 99: facing the Next Millenium, AIP Conference Proceedings, 495 (1999) 385-86

44. “Measurement of the  ${}^3\text{He}({}^3\text{He},2p){}^4\text{He}$  cross section down to the lower edge of the solar Gamow peak”

R. Bonetti, C. Brogгинi, L. Campajola, P. Corvisiero, A. D’Alessandro, M. Dessalvi, A. D’Onofrio, A. Fubini, G. Gervino, L. Gialanella, *U. Greife*, A. Guglielmetti, C. Gustavini, G. Imbriani, M. Junker, P. Prati, V. Roca, C. Rolfs, M. Romano, F. Schuemann, F. Strieder, F. Terrasi, H.P. Trautvetter and S. Zavatarelli

Zavatarelli

Experimental Nuclear Physics in Europe, ENPE 99: facing the Next Millenium, AIP Conference Proceedings, 495 (1999) 357-58

45. “Stopping power, electron screening and the astrophysical  $S(E)$  factor of  $d(^3\text{He},p)^4\text{He}$ ”  
H. Costantini, A. Formicola, M. Junker, R. Bonetti, C. Brogгинi, L. Campajola, P. Corvisiero, A. D’Onofrio, A. Fubini, G. Gervino, L. Gialanella, *U. Greife*, A. Guglielmetti, C. Gustavini, G. Imbriani, A. Ordine, P.G. Prada Moroni, P. Prati, V. Roca, D. Rogalla, C. Rolfs, M. Romano, F. Schuemann, O. Straniero, F. Strieder, F. Terrasi, H.P. Trautvetter and S. Zavatarelli  
*Phys. Lett. B* 482 (2000) 43-49

46. “Absolute cross section of  $p(^7\text{Be},\gamma)^8\text{B}$  using a novel approach”  
L. Gialanella, F. Strieder, L. Campajola, A. D’Onofrio, *U. Greife*, G. Gyurky, G. Imbriani, G. Oliviero, A. Ordine, V. Roca, C. Rolfs, M. Romano, D. Rogalla, C. Sabbarese, E. Somorjai, F. Terrasi and H.P. Trautvetter  
*Eur. Phys. J. A* 7 (2000) 303-305

47. “Nuclear Reaction Rates”  
*U. Greife* and C. Rolfs  
Encyclopedia of Astronomy and Astrophysics, IOP Publishing and Macmillan , London (2001) 1879-1884

48. “Direct measurement of the absolute cross section of  $p(^7\text{Be},\gamma)^8\text{B}$ ”  
F. Terrasi, L. Gialanella, G. Imbriani, F. Strieder, L. Campajola, A. D’Onofrio, *U. Greife*, G. Gyurky, C. Lubritto, A. Ordine, V. Roca, C. Rolfs, M. Romano, D. Rogalla, C. Sabbarese, E. Somorjai and H.P. Trautvetter  
Proceedings of the 6<sup>th</sup> Workshop: Nuclei in the Cosmos, Aarhus, Denmark  
*Nucl. Phys. A* 688 (2001) 539c-542c

49. “Recoil separator ERNA: improved measurements of the astrophysical key reaction  $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ ”  
D. Rogalla, M. Aliotta, C.A. Barnes, L. Campajola, A. D’Onofrio, L. Gialanella, *U. Greife*, G. Imbriani, A. Ordine, V. Roca, C. Rolfs, M. Romano, C. Sabbarese, D. Schuemann, F. Strieder, S. Theis, F. Terrasi, H.P. Trautvetter  
Proceedings of the 6<sup>th</sup> Workshop: Nuclei in the Cosmos, Aarhus, Denmark  
*Nucl. Phys. A* 688 (2001) 549c-551c

50. “A new measurement of the E1 amplitude in  $^{12}\text{C}(\alpha,\gamma_0)^{16}\text{O}$ ”  
L. Gialanella, M. Aliotta, D. Rogalla, C. Rolfs, F. Schuemann, F. Strieder, S. Theis, H.P. Trautvetter, L. Campajola, G. Imbriani, V. Roca, M. Romano, A. D’Onofrio, C. Sabbarese, F. Terrasi, C. Agodi, R. Alba, A. Del Zoppo, P. Figuera, P. Sapienza, C. Spitaleri, G. Gyurky, E. Somorjai, *U. Greife*



Proceedings of the 6<sup>th</sup> Workshop: Nuclei in the Cosmos, Aarhus, Denmark  
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51. “The E1 capture amplitude in  $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ ”

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J.C. Blackmon, D.W. Bardayan, C.R. Brune, A.E. Champagne, R. Crespo, T. Davinson, J.C. Fernandes, C.A. Gagliardi, *U. Greife*, C.J. Gross, P.A. Hausladen, C. Iliadis, *C.C. Jewett*, R.L. Kozub, T.A. Lewis, F. Liang, B.H. Moazen, A.M. Mukhamedzhanov, C.D. Nesarja, F.M. Nunes, P.D. Parker, D.C. Radford, L. Sahin, J.P. Scott, D. Shapira, M.S. Smith, J.S. Thomas, L. Trache, R.E. Tribble, P.J. Woods and C.H. Yu  
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R.L. Kozub, D.W. Bardayan, J.C. Batchelder, J.C. Blackmon, C.R. Brune, A.E. Champagne, J.A Cizewski, T. Davinson, *U. Greife*, C.J. Gross, *C.C. Jewett*, *R.J. Livesay*, Z. Ma, B.H. Moazen, C.D. Nesaraja, J.P. Scott, L. Sahin, D. Shapira, M.S. Smith, J.S. Smith and P.J. Woods

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M. Trinczek, *C.C. Jewett*, J.M. D’Auria, S. Bishop, L. Buchmann, A.A. Chen, S.Engel, D. Gigliotti, *U. Greife*, D. Hunter, A. Hussein, D.A. Hutcheon, J. Jose, A. Laird, M. Lamey, R. Lewis, A. Olin, D. Ottewell, P.D. Parker, M.M. Pavan, J.E. Pearson, J.G. Rogers, C. Ruiz and C. Wrede

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K.L. Jones, C. Baktash, D.W. Bardayan, J.C. Blackmon, W.N. Catford, J.A. Cizewski, R.P. Fitzgerald, U. Greife, C.J. Gross, M.S. Johnson, R.L. Kozub, F. Liang, R.J. Livesay, Z. Ma, B.H. Moazen, C.D. Nesaraja, D. Shapira, M.S. Smith J.S. Thomas and D. Visser  
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A.A. Chen, R.E. Azuma, S. Bishop, L. Buchmann, M.L. Chatterjee, J.M. D’Auria, S. Engel, D. Gigliotti, U. Greife, D. Hunter, A. Hussein, D.A. Hutcheon, C.C. Jewett, J. Jose, J. King, A. Laird, M. Lamey, R. Lewis, W. Liu, S. Michimasa, A. Olin, D. Ottewell, P.D. Parker, J.G. Rogers, C. Ruiz, M. Trinczek and C. Wrede  
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Capture Measurements at LANSCE”

J.L. Ullmann, U. Agyaanluysan, *A. Alpizar-Vicente*, E.M. Bond, T.A. Bredeweg, E.I. Esch, C.M. Folden, *U. Greife*, R.C. Haight, *R. Hatarik*, D.C. Hoffmann, L. Hunt, A. Kronenberg, J.M. O’Donnell, R. Reifarth, R.S. Rundberg, J.M. Schwantes, D.D. Strotmann, D.J. Vieira, J.B. Wilhelmy and J.M. Wouters  
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*R. Hatarik*, *A. Alpizar-Vicente*, T.A. Bredeweg, E.I. Esch, *U. Greife*, R.C. Haight, J.M. O'Donnell, R. Reifarh, R.S. Rundberg, J.L. Ullmann, D.J. Vieira, J.B. Wilhelmy and J.M. Wouters  
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108. “Single Neutron Transfer Experiments Close to the r-Process Path”  
K.L. Jones, A.S. Adekola, D.W. Bardayan, J.C. Blackmon, K.Y. Chae, K. Chipps, J.A. Cizewski, D.J. Dean, L. Erikson, R.P. Fitzgerald, A.L. Gaddis, U. Greife, C. Harlin, R. Hatarik, J.A. Howard, M.S. Johnson, R.L. Kozub, J.F. Liang, R.J. Livesay, Z. Ma, B.H. Moazen, P.D. O’Malley, C.D. Nesaraja, S.D. Pain, N.P. Patterson, S.V. Paulenkas, D. Shapira, J.F. Shriner Jr, D.J. Sissom, M.S. Smith, T.P. Swan and J.S. Thomas  
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110. “Excited States in  $^{22}\text{Mg}$  via the  $^{12}\text{C}(^{12}\text{C},2n)^{22}\text{Mg}$  reaction”  
C. Jewett, C. Baktash, D. Bardayan, J. Blackmon, K. Chipps, A. Galindo-Uribarri, U. Greife, C. Gross, K. Jones, F. Liang, J. Livesay, R. Kozub, C. Nesaraja, D. Radford, F. Sarazin, M.S. Smith, J. Thomas, C.-H. Yu

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*J.S. Thomas, G. Arbanas, D.W. Bardayan, J.C. Blackmon, J.A. Cizewski, D.J. Dean, R.P. Fitzgerald, U. Greife, C.J. Gross, M.S. Johnson, K.L. Jones, R.L. Kozub, J.F. Liang, R.J. Livesay, Z. Ma, B.H. Moazen, C.D. Nesaraja, D. Shapira, M.S. Smith and D.W. Visser*

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*B.H. Moazen, D.W. Bardayan, J.C. Blackmon, K.Y. Chae, K. Chipps, C.D. Domizioli, R. Fitzgerald, U. Greife, K.L. Jones, R.L. Kozub, R.J. Livesay, C.D. Nesaraja, S.D. Pain, J.F. Shriner Jr., M.S. Smith and J.S. Thomas*

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*A.M. Alpizar-Vicente, T.A. Bredeweg, E.-I. Esch, U. Greife, R.C. Haight, R. Hatarik, J.M. O'Donnell, R. Reifarh, R.S. Rundberg, J.L. Ullmann, D.J. Vieira and J.M. Wouters*

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D. Hutcheon, L. Buchmann, A.A. Chen, J.M. D'Auria, C.A. Davis, *U. Greife*, A. Hussein, D.F. Ottewell, C.V. Quellet, A. Parikh, P. Parker, J. Pearson, C. Ruiz, G. Ruprecht, M. Trinczek and C. Vockenhuber  
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118. "Direct measurements of (p,gamma) cross sections at astrophysical energies using radioactive beams and the Daresbury Recoil Separator"  
D.W. Bardayan, *K.A. Chipps*, R.P. Fitzgerald, J.C. Blackmon, K.Y. Chae, A.E. Champagne, *U. Greife*, R. Hatarik, R.L. Kozub, C. Matai, B.H. Moazen, C. D. Nesaraja, S.D. Pain, W.A. Peters, S.T. Pittman, J.F. Shriner Jr. and M.S. Smith  
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*K.A. Chipps*, D.W. Bardayan, J.C. Blackmon, K.Y. Chae, *U. Greife*, R. Hatarik, R.L. Kozub, C. Matai, B.H. Moazen, C. D. Nesaraja, S.D. Pain, W.A. Peters, S.T. Pittman, J.F. Shriner Jr. and M.S. Smith  
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121. "Astrophysically important  $^{19}\text{Ne}$  states studied with the  $2\text{-H}(^{18}\text{F}, \alpha+^{19}\text{Ne})n$  reaction"  
A.S. Adekola, D.W. Bardayan, J.C. Blackmon, C.R. Brune, K.Y. Chae, A.E. Champagne, C.P. Domizioli, *U. Greife*, Z. Heinen, M.J. Hornish, M. Johnson, K.L. Jones, R.L. Kozub, *R.J. Livesay*, Z. Ma, T.N. Massey, B.H. Moazen, C. D. Nesaraja, S.D. Pain, J.F. Shriner Jr., J.S. Thomas, N.D. Smith, M.S. Smith, D.W. Visser and A.V. Voinov  
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*L. Erikson, C. Ruiz, F. Ames, P. Bricault, L. Buchmann, A.A. Chen, J. Chen, H. Dare, B. Davids, C. Davis, C.M. Deibel, M. Dombisky, S. Foubishe, N. Galinski, U. Greife, U. Hager, A. Hussein, D.A. Hutcheon, J. Lassen, L. Martin, D.F. Ottewell, C.V. Ouellet, G. Riprecht, K. Setoodehnia, A.C. Shotter, A. Teigelhoefer, C. Vockenhuber, C. Wrede and A. Wallner*  
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*Berg, Georg P. A., Blackmon, Jeff C., Couder, Manoel, Greife, U., Montes, F., Rehm, K. Ernst, Schatz, Hendrik, Smith, Michael S., Wiescher, Michael, Zeller, Al*  
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125. “The DIANA Underground Accelerator Facility Project at DUSEL Laboratory”  
*A. Lemut, M. Couder, D. Winklehner, A.E. Champagne, P. Collon, M. Famiano, F. Gray, U. Greife, A. Hodgkinson, C. Illiadis, D. Leitner, M. Leitner, J.S. Saba, E. Stech, P.A. Vetter, W.L. Waldron, M. Wiescher*  
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126. “Direct Measurements of (p,γ) Cross Sections at Astrophysical Energies using Radioactive Beams and the Daresbury Recoil Separator”  
*D. W. Bardayan, K.A. Chipps, R.P. Fitzgerald, J.C. Blackmon, K.Y. Chae, A.E. Champagne, U. Greife, R. Hatarik, R.L. Kozub, C. Matei, B.H. Moazen, C.D. Nesaraja, S.D. Pain, W.A. Peters, S.T. Pittman, J.F. Shriner Jr., M.S. Smith*  
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127. “The  $^{33}\text{S}(p,\gamma)^{34}\text{Cl}$  Reaction in Classical Nova Explosions”  
*A. Parikh, T. Faestermann, R. Kruecken, V. Bildstein, S. Bishop, K. Eppinger, C. Herlitzius, O. Lepyoshkina, P. Mairebeck, D. Seiler, K. Wimmer, R. Hertenberg, H-F. Wirth, J. Fallis, U. Hager, D. Hutcheon, C. Ruiz, L. Buchmann, D. Ottewell, B. Freeman, C. Wrede, A. Garcia, B. Delbridge, A. Knecht, A. Sallaska, A.A. Chen, J.A. Clark, C.M. Deibel, B. Fulton, A. Laird, U. Greife, B. Guo, E. Li, Z. Li, G.*

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128. “The First Direct Measurement of  $^{17}\text{O}(\alpha,\gamma)^{21}\text{Ne}$  and its Impact upon s-Process Abundances”

M. Taggart, *U. Hager*, A.M. Laird, C. Ruiz, D. Hutcheon, D. Ottewell, J. Fallis, *L. Erikson*, M. Benteley, J.R. Brown, L. Buchmann, A.A. Chen, J. Chen, *K.A. Chipps*, J. D'Auria, B. Davids, C. Davis, C. Aa. Diget, S. P. Fox, B. Fulton, N. Galinski, *U. Greife*, F. Herwig, R. Hirschi, D. Howell, L. Martin, D. Mountfort, A. Murphy, M. Pignateri, S. Reeve, G. Ruprecht, S. Sjuve, L. Veloce

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130. “First proton-transfer study of  $^{18}\text{F}+\text{p}$  resonances relevant for novae”

A. S. Adekola, D. W. Bardayan, J. C. Blackmon, C. R. Brune, K. Y. Chae, C. Domizioli, *U. Greife*, Z. Heinen, M. J. Hornish, K. L. Jones, R. L. Kozub, *R. J. Livesay*, Z. Ma, T. N. Massey, B. Moazen, C. D. Nesaraja, S. D. Pain, J. F. Shriner, Jr., N. D. Smith, M. S. Smith, J. S. Thomas, D. W. Visser, and A. V. Voinov

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132. “Single-nucleon transfer reactions on  $^{18}\text{F}$ ”  
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133. “Direct Total Cross Section Measurement of the  $^{16}\text{O}(\alpha,\gamma)^{20}\text{Ne}$  Reaction at  $E_{\text{cm}}=2.26$  MeV”  
*U. Hager*, J.R. Brown, L. Buchmann, M. Carmona-Gallardo, L. Erikson, J. Fallis, *U. Greife*, D. Hutcheon, D. Ottewell, C. Ruiz, S. Sjuje and C. Vockenhuber  
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134. “Design of a 400 kV deep underground, high detector efficiency, high target density, high beam intensity accelerator facility”  
A. Lemut, M. Couder, D. Winklehner, *U. Greife*, A. Hodgkinson, D. Leitner, M. Leitner, J.S. Saba, P.A. Vetter, W.L. Waldron and M. Wiescher  
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Chris Ruiz, *Uwe Greife* and Ulrike Hager  
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*Adam Mahl*, Henok A Yemam, Roshan Fernando, Joshua T Koubek, Alan Sellinger, *Uwe Greife*  
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173. “Methacrylate based cross-linkers for improved thermomechanical properties and retention of radiation detection response in plastic scintillators”

*Adam Mahl*, Allison Lim, *Joseph Latta*, Henok A. Yemam, *Uwe Greife*, Alan Sellinger  
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*D. Connolly*, *P. D. O'Malley*, C. Akers, A. A. Chen, G. Christian, B. Davids, L. Erikson, J. Fallis, B. R. Fulton, *U. Greife*, U. Hager, D. A. Hutcheon, S. Ilyushkin, A. M. Laird, A. Mahl, and C. Ruiz  
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K Schmidt, KA Chipps, S Ahn, DW Bardayan, J Browne, *U Greife*, Z Meisel, F Montes, PD O'Malley, WJ Ong, SD Pain, H Schatz, K Smith, MS Smith, PJ Thompson

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Cory Pecinovsky, Pascale Meysing, *Adam Mahl*, John Dorgan, *Uwe Greife*, *Tyler Remedés*  
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2) “Boron containing organic/hybrid scintillation materials for gamma and neutron detection”

Alan Sellinger, *Uwe Greife*, Henok Yemam, *Adam Mahl*  
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