

ARTICLES DE RECHERCHE: REVUES INTERNATIONALES A COMITE DE LECTURE

1. "Dissociative recombination of HeH⁺: a reexamination"
F.B. Yousif, J.B.A. Mitchell, M. Rogelstad, A. Le Padellec, A. Canosa and M.I. Chibisov, Phys. Rev. A, 49(6), 4610, (1994).
2. "Isotope and electric field effects in dissociative recombination of D₃⁺"
M. Larsson, H. Danared, Å. Larson, A. Le Padellec, J.R. Peterson, S. Rosén, J. Semaniak and C. Strömholm, Phys. Rev. Lett., 79(3), 395, (1997).
3. "The dissociative recombination of KrH⁺ and XeH⁺"
A. Le Padellec, S. Laubé, O. Sidko, C. Rebrion - Rowe, B.R. Rowe, B. Sarpal and J.B.A. Mitchell, J. Phys. B, 30(4), 963, (1997).
4. "A merged beam study of the dissociative recombination of HCO⁺"
A. Le Padellec, C. Sheehan, D. Talbi and J.B.A. Mitchell, J. Phys. B, 30(2), 319, (1997).
5. "A Storage Ring study of the dissociative excitation and recombination of D₃⁺"
A. Le Padellec, M. Larsson, H. Danared, Å. Larson, J.R. Peterson, S. Rosén, J. Semaniak and C. Strömholm, Phys. Scripta, 57(2), 215, (1998).
6. "Absolute cross sections and final state distributions for Dissociative Recombination and Excitation of CO^{+(v = 0)} using an ion storage ring"
S. Rosén, R. Peverall, M. Larsson, A. Le Padellec, J. Semaniak, Å. Larson, C. Strömholm, W. Van der Zande, H. Danared and G.H. Dunn, Phys. Rev. A, 57(6), 4462, (1998).
7. "New FALP-MS Measurements of H₃⁺, D₃⁺ and HCO⁺ Dissociative Recombination"
S. Laubé, A. Le Padellec, O. Sidko, C. Rebrion - Rowe, J.B.A. Mitchell and B.R. Rowe, J. Phys. B, 31(9), 2111, (1998).
8. "The dissociative recombination of CN^{+"}
A. Le Padellec, C. Sheehan and J.B.A. Mitchell, J. Phys. B, 31(8), 1725, (1998).
9. "Dissociative recombination and excitation of N₂⁺: cross sections and product branching ratios"
J.R. Peterson, A. Le Padellec, H. Danared, G.H. Dunn, M. Larsson, Å. Larson, R. Peverall, C. Strömholm, S. Rosén, M. af Ugglas and W.J. van der Zande, J. Chem. Phys., 108(5), 1978, (1998).
10. "Dissociative recombination and excitation of CH₅⁺: absolute cross sections and branching fractions"
J. Semaniak, Å. Larson, A. Le Padellec, C. Strömholm, M. Larsson, S. Rosén, R. Peverall, H. Danared, N. Djuric, G.H. Dunn and S. Datz, Astrophys. J., 498(2), 886, (1998).
11. "Branching fractions in dissociative recombination of CH₂⁺"
Å. Larson, A. Le Padellec, J. Semaniak, C. Strömholm, M. Larsson, S. Rosén, R. Peverall, H. Danared, N. Djuric, G.H. Dunn and S. Datz, Astrophys. J., 505(1), 459, (1998).
12. "Resonant ion pair formation in electron collisions with ground state molecular ions"
W. Zong, G.H. Dunn, N. Djuric, M. Larsson, A. Al-Khalili, A. Neau, A.M. Derkatch, L. Vikor, W. Shi, A. Le Padellec, S. Rosén, H. Danared, and M. af Ugglas, Phys. Rev. Lett., 83(5), 951, (1999).
13. "Merged beam measurement of the Dissociative Recombination of HCN⁺ and HNC^{+"}"
C. Sheehan, A. Le Padellec, W.N. Lennard, D. Talbi and J.B.A. Mitchell, J. Phys. B, 32(14), 3347, (1999).
14. "Storage ring measurements of the dissociative recombination and excitation of the cyanogen ion CN⁺ (X¹Σ⁺ and A³Π, v = 0)"
A. Le Padellec, J.B.A. Mitchell, A. Al-Khalili, H. Danared, A. Källberg, Å. Larson, S. Rosén, M. af Ugglas, L. Vikor and M. Larsson, J. Chem. Phys., 110(2), 890, (1999).
15. "Branching fractions in dissociative recombination of the NH₄⁺ and NH₂⁺ molecular ions"
L. Vikor, A. Al-Khalili, H. Danared, N. Djuric, G.H. Dunn, M. Larsson, A. Le Padellec, S. Rosén and M. af Ugglas, Astron. Astrophys., 344(3), 1027, (1999).
16. "Resonant ion pair formation in electron collisions with HD⁺ and OH⁺"
A. Larson, N. Djuric, W. Zong, C.H. Green, A.E. Orel, A. Al-Khalili, A.M. Derkatch, A. Le Padellec, A. Neau, S. Rosén, W. Shi, L. Vikor, H. Danared, M. af Ugglas, M. Larsson and G.H. Dunn, Phys. Rev. A, 62(4) 042707, (2000).
17. "Quantum chemical calculations for the Dissociative Recombination of HCN⁺ and HNC^{+"}"
D. Talbi, A. Le Padellec and J.B.A. Mitchell, J. Phys. B, 33(18), 3631, (2000).

18. "Dissociative Recombination of D₃O⁺ and H₃O⁺ : absolute cross sections and branching ratios" A. Neau, A. Al-Khalili, S. Rosén, J. Semaniak, A. Le Padellec, A.M. Derkatch, W. Shi, L. Vikor, M. Larsson, R. Thomas, M. Nagard, K. Andersson, H. Danared and M. af Ugglas, *J. Chem. Phys.*, 113(5), 1762, (2000).
19. "Electron scattering on CN⁻" A. Le Padellec, K. Andersson, D. Hanstorp, F. Hellberg, M. Larsson, A. Neau, S. Rosén, H.T. Schmidt, R. Thomas, J. Semaniak, D.J. Pegg, F. Österdahl, H. Danared and A. Källberg, *Phys. Scripta*, 64(5), 467, (2001).
20. "Resonant ion pair formation and dissociative recombination in electron collisions with ground state HF⁺ ions" N. Djuric, G. Dunn, A. Al-Khalili, A.M. Derkatch, A. Neau, S. Rosen, W. Shi, L. Vikor, W. Zong, M. Larsson, A. Le Padellec, H. Danared and M. af Ugglas, *Phys. Rev. A*, 64(2), 022713, (2001).
21. "Resonant ion pair formation in the recombination of NO⁺ with electrons: cross section determination" A. Le Padellec, N. Djuric, A. Al-Khalili, H. Danared, A.M. Derkatch, A. Neau, D.B. Popovic, S. Rosén, J. Semaniak, R. Thomas, M. af Ugglas, W. Zong, and M. Larsson, *Phys. Rev. A*, 64(1), 012702, (2001).
22. "Electron-Impact Detachment and Dissociation of C₄⁻ Ions" A. Le Padellec, D. Pegg, F. Rabilloud, A. Neau, F. Hellberg, R. Thomas, H.T. Schmidt, M. Larsson, K. Andersson, H. Danared, A. Källberg and D. Hanstorp, *J. Chem. Phys.*, 115(23), 10671, (2001).
23. "Dissociative Recombination and Excitation of O₂⁺ : Cross Sections, Product Yields and Implications for studies of ionospheric airglows" R. Peverall, S. Rosén, J.R. Peterson, M. Larsson, A. Al-Khalili, L. Vikor, J. Semaniak, R. Bobbenkamp, A. Le Padellec, and W.J. van der Zande, *J. Chem. Phys.*, 114(15), 6679, (2001).
24. "Electron Impact Single Detachment on the F⁻ ions using the heavy ion storage ring CRYRING: cross section determination" K. Andersson, D. Hanstorp, A. Neau, S. Rosén, H.T. Schmidt, R. Thomas, M. Larsson, J. Semaniak, F. Österdahl, H. Danared, A. Källberg and A. Le Padellec, *Eur.Phys.J.D*, 13(3), 323, (2001).
25. "Merged beam study of the associative ionisation (C⁺, N⁺ and O⁺) + O⁻" T. Nzeyimana, E.A. Naji, X. Urbain and A. Le Padellec, *Eur.Phys.J.D*, 19(3), 315, (2002)
26. "Electric dipole moments and polarizabilities of single excess electron sodium fluoride clusters: Experiment and theory" D. Rayane, I. Compagnon, R. Antoine, M. Broyer, P. Dugourd, P. Labastie, J.-M. L'Hermite, A. Le Padellec, G. Durand, F. Calvo, F. Spiegelman and A.R. Allouche, *J. Chem. Phys.*, 116(24), 10730, (2002).
27. "Relative cross sections for the Electron Impact Single Detachment on Li⁻" A. Le Padellec, G.F. Collins, H. Danared, A. Källberg, F. Hellberg, K. Andersson, D. Hanstorp and M. Larsson , *J. Phys. B*, 35(17), 3669, (2002).
28. "Merged beam study of the associative ionisation O⁻+D⁺/O⁺+D⁻ and C⁺+D⁻" E.A. Naji, T. Nzeyimana, X. Urbain and A. Le Padellec, *J. Phys. B*, 35(21), 4325, (2002).
29. "Absolute High-Resolution Rate Coefficients for Dissociative Recombination of Electrons with HD⁺ : Comparison of Results from Three Heavy Ion Storage Rings" A. Al-Khalili, S. Rosen, H. Danared, A. M. Derkatch, A. Källberg, M. Larsson, A. Le Padellec, A. Neau, J. Semaniak, R. Thomas, M. af Ugglas, L. Vikor, W. Zong, W.J. van der Zande, X. Urbain, M.J. Jensen, R.C. Bilodeau, O. Heber, H.B. Pedersen, C.P. Safvan, L. Andersen, M. Lange, J. Levin, G. Gwinner, L. Knoll, M. Scheffel, D. Schwalm, R. Wester, D. Zajfman and A. Wolf, *Phys. Rev. A*, 68(4), 042702, (2003).
30. "Electron-impact detachment of Cl⁻" K. Fritioff, D. Hanstorp, J. Sandström, A. Ehlerding, M. Larsson, G.F. Collins, D.J. Pegg, H. Danared, A Källberg and A. Le Padellec, *Phys. Rev. A*, 68(1), 012712, (2003).
31. "Relaxation of photoexcited Na₃F⁺" J.-M. L'Hermite, V. Blanchet, A. Le Padellec, B. Lamory and P. Labastie, *Eur.Phys.J.D*, 28(3), 361, (2004)
32. "Observation of an excited C₄²⁻ ion" K. Fritioff, J. Sandström, P. Andersson, D. Hanstorp, F. Hellberg, R. Thomas, W. Geppert, M. Larsson, F. Österdahl, G.F. Collins, A. Le Padellec, D.J. Pegg, N.D. Gibson, H. Danared and A. Källberg, *J. Phys. B*, 37(11), 2241, (2004).

- 33. «Fragmentation of highly excited small neutral carbon clusters»**
G. Martinet, S. Diaz-Tendero, M. Chabot, K. Wohrer , S. Della Negra, F. Mezdari , H. Hamrita , P. Désesquelles, A. Le Padellec, D. Gardés, L. Lavergne, G. Lalu, X. Grave, J.F. Clavelin, P.A. Hervieux, M. Alcami and F. Martin, Phys. Rev. Lett., 93(6), 063401, (2004).
- 34. “Abstraction and insertion mechanisms in reactive collisions between H_2^+ or D_2^+ and O^- ”**
E.M. Staicu - Casagrande, T. Nzeyimana, E.A. Naji, N. de Ruette, B. Fabre, A. Le Padellec and X. Urbain, Eur.Phys.J.D, 31(3), 469, (2004).
- 35. “Partial near threshold cross sections for the Associative Ionization to form CO^+ , NO^+ and O_2^+ ”**
A. Le Padellec, Phys. Scripta, 71(6), 621, (2005).
- 36. “Ionisation cross sections of small cationic carbon clusters in high energy collisions with helium atoms and stability of multiply charged species”**
F. Mezdari, K. Wohrer, M. Chabot, G. Martinet, S. Della Negra, P. Désesquelles and A. Le Padellec, Phys. Rev. A, 72(3), 032707, (2005).
- 37. “Reactive collisions between CH^+ and O^- ”**
A. Le Padellec, E.M. Staicu - Casagrande, T. Nzeyimana, E.A. Naji and X. Urbain, J. Chem. Phys., 124(15), 154304, (2006).
- 38. “Fragmentation of small neutral carbon clusters”**
S. Diaz - Tendero, G. Sanchez, M. Alcami , F. Martin, P.A. Hervieux, M. Chabot, G. Martinet, F. Mezdari, K. Wohrer - Béroff , S. Della Negra, H. Hamrita, A. Le Padellec and L. Montagnon, Int. J. Mass Spectrom., 252(2), 126, (2006).
- 39. “Charge Transfer in high velocity collisions $\text{C}_n^+ + \text{He}$ ”**
M. Chabot, G. Martinet, F. Medzari, S. Diaz - Tendero, K. Béroff - Wohrer, P. Désesquelles, S. Della-Negra, H. Hamrita, A. Le Padellec, T. Tuna, M. Barat, M. Simon, I. Ismaïl, J. Phys. B, 39(11), 2593, (2006).
- 40. “Electron spectroscopy in proton collisions with dry gas phase uracil base”**
P. Moretto - Capelle and A. Le Padellec, Phys. Rev. A, 74, 062705, (2006).
- 41. “Energetics and metastability of the adenine dication observed in proton to adenine collisions”**
P. Moretto - Capelle, A. Le Padellec, G. Brière, S. Massou and F. Franceris, J. Chem. Phys., 127(23), 234311, (2007).
- 42. “Fragmentation branching ratios of highly excited hydrocarbon molecules C_nH and their cations $\text{C}_n\text{H}^+ (n \leq 4)$ ”**
T. Tuna, M. Chabot, T. Pino, P. Désesquelles, A. Le Padellec, G. Martinet, M. Barat, B. Lucas, F. Mezdari, L. Montagnon, N.T. Van-Oanh, L. Lavergne, A. Lachaize, Y. Carpentier and K. Béroff, J. Chem. Phys., 128(12), 124312, (2008).
- 43. “Competitive processes in the associative ionisation of C^- with C^+ , N^+ , and O^+ ”**
A. Le Padellec, J. Liévin, E.M. Staicu - Casagrande, T. Nzeyimana, E.A. Naji and X. Urbain, Phys. Rev. A, 78(6), 062705, (2008).
- 44. “Geiger Avalanche Photodiodes as tentative light detectors for VHE gamma ray astronomy”**
D. Pellion, K. Jradi, A. Le Padellec, A. Rennane, F. Moutier, V. Borrel, D. Esteve, C. Magenc and A.R. Bazer-Bachi, Exp. Astron., 27(3), 187, (2010).
- 45. “Statistical Universal Branching Ratios for Cosmic Ray dissociation, photodissociation and dissociative recombination, of the $\text{C}_{n=2-10}$, $\text{C}_{n=2-4}\text{H}$ and C_3H_2 neutral and cationic species”**
M. Chabot, T. Tuna, K. Béroff, T. Pino, A. Le Padellec, P. Desequelles, G. Martinet, V.O. Nguyen-Thi, Y. Carpentier, F. Le Petit, E. Roueff and V. Wakelam, Astron. Astrophys., 524(16), A39, (2010).
- 46. “Computer-Aided Design (CAD) Model for Silicon Avalanche Geiger Mode Systems Design: Application to high sensitivity imaging systems”**
K. Jradi, D. Pellion, D. Esteve, J.-L. Boizard, A. Le Padellec and A.R. Bazer-Bachi, Nucl. Instr. Methods Phys. Res. Sec. A, 626, 77, (2011).
- 47. “Ultrafast non-adiabatic fragmentation dynamics of doubly charged uracil in gas phase”**
P. Lopez-Tarifa, M.-A. Hervé du Penhoat, R. Vuilleumier, M.-P. Gaigeot, I. Tavernelli, A. Le Padellec, J.-P. Champeaux, M. Alcami, P. Moretto-Capelle, F. Martin and M.-F. Politis, Phys. Rev. Lett., 107(2), 023202, (2011).
- 48. “Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy”**
The CTA Consortium, Exp. Astron., 32(3), 193, (2011).

- 49. "Fragmentation of multiply-charged hydrocarbon molecules C_nH^{q+} ($n \leq 4$, $q \leq 7$) produced in high-velocity collisions: Branching Ratios and Kinetic Energy Release of the H^+ fragment"**
K. Béroff, N.T. Van-Oanh, M. Chabot, T. Tuna, T. Pino, G. Martinet, A. Le Padellec, Y. Carpentier and L. Lavergne, Phys. Rev. A, 84(3), 032705, (2011).
- 50. "The use of silicon-based photomultipliers for very high energy gamma ray astronomy: the optical issues"**
A. Cadu, A. Le Padellec, K. Jradi, D. Pellion and A.R. Bazer-Bachi, Exp. Astron., 35(3), 459, (2013).
- 51. "Anion production in high-velocity cluster-atom collisions ; the electron capture process re-visited"**
K. Béroff, M. Chabot, G. Martinet, T. Pino, S. Bouneau, A. Le Padellec, G. Féraud, N. Dothi, F. Calvo, C. Bordas and F. Lépine, J. Phys. B, 46, 015201, (2013).
- 52. "Introducing the CTA Concept"**
The CTA Consortium, Astroparticle Physics, 43, 3, (2013).
- 53. "Time-dependent density functional theory molecular dynamics simulation of doubly charged uracil in gasphase"**
P. López-Tarifa, M.-A. Hervé du Penhoat, R. Vuilleumier, M.-P. Gaigeot, U. Rothlisberger, I. Tavernelli, A. Le Padellec, J.-P. Champeaux, M. Alcamí, P. Moretto-Capelle, F. Martín, M.-F. Politis, Cent. Eur. J. Phys, 12(2), 97, (2014).
- 54. "Ion pair dissociation of highly excited carbon clusters: size and charge effects"**
T. Launoy, K. Béroff, M. Chabot, G. Martinet, A. Le Padellec, T. Pino, S. Bouneau, N. Vaeck, J. Liévin, G. Féraud, J. Loreau, and T. Mahajan, Phys. Rev. A, 95(2), 022711, (2017).
- 55. "Investigation of critical parameters controlling the efficiency of associative ionization"**
A. Le Padellec, T. Launoy, A. Dochain and X. Urbain, J. Phys. B, 50, 095202, (2017).
- 56. "Semiempirical breakdown curves of $C_2N^{(+)}$ and $C_3N^{(+)}$ molecules ; application to products branching ratios predictions of physical and chemical processes involving these adducts"**
T. IdBarkach, T. Mahajan, M. Chabot, K. Béroff, N.F. Aguirre, S. Diaz-Tendero, T. Launoy, A. Le Padellec, L. Perrot, M. Bonnin, K.C. Le, F. Geslin, N. de Sereville, F. Hammache, A. Jallat, A. Meyer, E. Charon, T. Pino, T. Hamelin, V. Wakelam, Molec. Astrophys., 12, 25, (2018).
- 57. "Integral cross sections for the associative ionisation to form CO_2^+ and N_2O^+ "**
X. Urbain, A. Le Padellec, E.M. Staicu - Casagrande, T. Nzeyimana and E.A. Naji, à soumettre

ARTICLES D'ENSEIGNEMENT: REVUES NATIONALES A COMITE DE LECTURE

- 1. "En 2010, le laser aura 50 ans"**
C. Fabre, M. Leduc et A. Le Padellec, Reflets de la Physique, 17, 30, (2009).
- 2. "Quand la recherche sur l'enseignement de la physique rencontre la pédagogie et le multimédia..."**
A. Le Padellec, Reflets de la Physique, 22, 25, (2010).
- 3. "Le nouveau lycée : une occasion manquée..."**
M. Ducloy et A. Le Padellec, Reflets de la Physique, 24, 2, (2011)
- 4. "Réflexions sur l'enseignement de la science au regard de la physique subatomique ..."**
P. Ausset, R. Bimbot, G. Bonneaud, B. Cros, E. Galichet, A. Le Padellec, E. Merle-Lucotte, S. Panebianco, G. Sajot, J.-L. Sida et B. Tamain, Reflets de la Physique, 24, 23, (2011).
- 5. "CETESIS 2011 : un lieu d'échange privilégié pour les enseignants dans le domaine des sciences de l'ingénieur"**
A. Le Padellec, Reflets de la Physique, 28, 23, (2012).
- 6. "La réforme de la formation des enseignants, un an après..."**
N. Billy, J.-L. Bodnar, D. Dumora, A. Le Padellec et L. Villain, Reflets de la Physique, 29, 19, (2012).
- 7. "Le colloque CETESIS 2013"**
A. Le Padellec, Reflets de la Physique, 37, 36, (2014).
- 8. "L'école d'été e2phy 2013 : Entre lumière et matière"**
A. Le Padellec, S. Rémy et J.-M. Biau, Reflets de la Physique, 37, 37, (2014).
- 9. "La Maison pour la science en Midi-Pyrénées"**
C. Transetti et A. Le Padellec, Reflets de la Physique, 42, 33, (2015).
- 10. L'école d'été e2phy 2014 : 'La physique des extrêmes'**
A. Le Padellec, V. Morénas et S. Panebianco, Reflets de la physique, 43, 41, (2015).

ARTICLES: CHAPITRES DE LIVRES

1. "Experimental studies of Dissociative Recombination of H₃⁺, KrH⁺ and XeH⁺"
A. Le Padellec, S. Laubé, C. Rebrion - Rowe, O. Sidko, J.C. Gomet and B. Rowe, "Symposium on Atomic, Cluster and Surface Physics - SASP 96", VDF Publishers - Zürick - ISBN - 3728-123-293, Eds: J.P. Maier and M. Quack
2. "Branching fractions in dissociative recombination of NH₄⁺ and NH₂⁺ molecular ions"
L. Viktor, A. Al-Khalili, H. Danared, N. Djuric, G.H. Dunn, M. Larsson, A. Le Padellec, S. Rosén and M. af Ugglas, "Symposium on the Physics of Ionized Gases", Faculty of Physics, University of Belgrade, Eds: N. Konjevic, M. Cuk et I.R. Vidovic - p.131-
3. "Branching ratios in Dissociative Recombination measured in a storage ring"
L. Viktor, A. Al-Khalili, H. Danared, N. Djuric, G.H. Dunn, M. Larsson, A. Le Padellec, S. Rosén and M. af Ugglas, "Applications of Accelerators in Research and Industry", Springer Verlag, ISBN-9781563968259, Eds: J.L. Duggan et I.L. Morgan -p.146-
4. "Ionic fragment production in dissociative electron-molecular ion collisions"
N. Djuric, W. Zong, C.H. Greene, G.H. Dunn, A. Al-Khalili, H. Danared, A.M. Derkatch, M. Larsson, A. Le Padellec, A. Neau, S. Rosén, W. Shi, L. Viktor and M. Af Ugglas, "DISSOCIATIVE RECOMBINATION : Theory, Experiment and Applications IV", World Scientific, ISBN 981-02-4077-5, Eds: M Larsson, J.B.A.Mitchell et I Schneider - p.56-
5. "The metastable fragmentation of silver bromide clusters"
F. Rabilloud, A. Le Padellec, P. Labastie, J.-M. L'Hermite and F. Spiegelmann, "The Physics and Chemistry of Clusters", World Scientific, ISBN 981-02-4529-7, Eds: E Campbell et M Larsson - p.292-
6. "Electron scattering on negative ions in a storage ring "
K. Andersson, D. Hanstorp, A. Neau, S. Rosen, H. Schmidt, J. Semaniak, R. Thomas, F. Hellberg, M. Larsson, A. Le Padellec and D.J. Pegg, "Photonic, Electronic and Atomic Collisions" - Proceedings of the XXII International Conference, Rinton Press ISBN 1-58949-018-5, Eds: Joachim Burgdörfer, James S. Cohen, Sheldon Datz et C. Randy Vane -p.288-
7. "Studies of electron collisions with CN⁺, CN⁻ and HCN<sup>+/HCN⁺"
A. Le Padellec, "Dissociative Recombination of Molecular Ions with Electrons" Kluwer Academic / Plenum Publishers, Harbound, ISBN 0-306-47765-3, Août 2003, Ed: Steven L. Guberman - p.109-</sup>
8. "Merged beam studies of associative ionization"
A. Le Padellec, X. Urbain, T. Nzeyimana and E.A. Naji, "Dissociative Recombination of Molecular Ions with Electrons" Kluwer Academic / Plenum Publishers, Harbound, ISBN 0-306-47765-3, Août 2003, Ed: Steven L. Guberman - p.343 –
9. "Electron collisions with C₄⁻ : detachment process and resonant structure"
A. Le Padellec, F. Rabilloud, D. Pegg, K. Andersson, D. Hanstorp, A. Neau, M. Larsson, F. Hellberg and R. Thomas, "Dissociative Recombination of Molecular Ions with Electrons" Kluwer Academic / Plenum Publishers, Harbound, ISBN 0-306-47765-3, Août 2003, Ed: Steven L. Guberman - p.441–
10. "Vibrational relaxation of photoexcited Na₃F"
V. Blanchet, J.-M. L'Hermite, A. Le Padellec, B. Lamory and P. Labastie, "Femtochemistry and Femtobiology: Ultrafast Events in Molecular Science" Elsevier, Harbound, ISBN 0-444-51656-5, 2004, Eds: Monique M. Martin et James T. Hynes -p.57–
11. "Fragmentation of small carbon clusters"
M. Chabot, F. Mezdari, G. Martinet, K. Wohrer - Béroff, S. Della Negra, P. Désesquelles, H. Hamrita, A. Le Padellec, L. Montagnon, S. Diaz - Tendero, M. Alcami, P.A. Hervieux and F. Martin, "Photonic, Electronic and Atomic Collisions - Proceedings of the XXIV International Conference" World scientific, ISBN 981-270-412-4, 2006, Eds: Pablo D. Fainstein, Marco Aurelio P. Lima, Jorge E. Miraglia, Eduardo C. Montenegro et Roberto D. Rivarola -p.607 –

ARTICLES: JOURNAUX VIRTUELS

1. "Electron spectroscopy in proton collisions with dry gas phase uracil base"
P. Moretto - Capelle and A. Le Padellec, Virtual J. Bio. Phys. Res., 12 (12), (2006).
-

CONFÉRENCES INVITÉES

1. **“Electron collision studies on CN⁺, HCN⁺/HNC⁺, CN⁻ and C₄”**
A. Le Padellec (*orateur*), "International Symposium on the Dissociative Recombination of Molecules with Electrons: Theory, Experiment, and Applications", Chicago, USA, 26 - 30 Août 2001
 2. **“Carbon clusters fragmentation”**
K. Béroff (*oratrice*), M. Chabot, F. Mezdari, G. Martinet, T. Tuna, P. Désesquelles and A. Le Padellec, "Seventh International Symposium Swift Heavy Ions in Matter – SHIM 2008", Lyon, France, 2 – 5 Juin 2008
 3. **“Irradiation of biomolecules: experimental investigations”**
P. Moretto - Cappelle and A. Le Padellec (*orateurs*), "Theory Days on Biomolecule Irradiation", Toulouse, France, 2 – 4 Décembre 2009
 4. **“Single and double electron capture in high-velocity C_n⁺, C_n⁻ He, Ar collisions”**
K. Béroff pour la collaboration AGAT – 23rd International Symposium on Ion Atom Collisions, Pékin, Chine, 19 - 22 Juillet 2013
-

CONTRIBUTIONS ORALES

1. **“Branching fractions in dissociative recombination of NH₄⁺ and NH₂⁺ molecular ions”**
L. Viktor (*oratrice*), A. Al-Khalili, H. Danared, N. Djuric, G.H. Dunn, M. Larsson, A. Le Padellec, S. Rosén and M. af Ugglas, "Symposium on the Physics of Ionized Gases", Zlatibor, Yougoslavie, 31 Août - 4 Sept 1998
2. **“Ionic fragment production in dissociative electron-molecular ion collisions”**
N. Djuric (*oratrice*), W. Zong, C.H. Greene, G.H. Dunn, A. Al-Khalili, H. Danared, A.M. Derkatch, M. Larsson, A. Le Padellec, A. Neau, S. Rosén, W. Shi, L. Viktor and M. Af Ugglas, "Dissociative recombination : Theory, Experiment and Applications IV", Stockholm, Suède, 16 – 20 Juin 1999
3. **“Electron scattering on negative ions in a storage ring”**
K. Andersson (*oratrice*), D. Hanstorp, A. Neau, S. Rosen, H. Schmidt, J. Semaniak, R. Thomas, F. Hellberg, M. Larsson, A. Le Padellec and D.J. Pegg, "XXII International Conference on Photonic Electronic and Atomic Collisions", Santa Fe, USA, 18 - 24 Juillet 2001
4. **“Etude de l'ionisation associative en faisceaux confluentes”**
A. Le Padellec, X. Urbain (*orateur*), T. Nzeyimana and E.A. Naji, "PAMO 2002 – JSM 2002", Bourges, France, 01 - 03 Juillet 2002
5. **“Carbon clusters - atom collisions at intermediate velocity, electronic processes & fragmentation channels. Case of C_n⁺ → He (n ≤ 10, v = 2.6 au, 2 MeV / carbon)” - special report**
F. Mezdari (*orateur*), G. Martinet, M. Chabot, K. Wohrer, S. Della Negra, H. Hamrita and A. Le Padellec, "Eight European Conference on Atomic and Molecular Physics", Rennes, France, 6 - 10 juillet 2004
6. **“Fragmentation of small carbon clusters” – progress reports: heavy particles**
M. Chabot (*orateur*), F. Mezdari, G. Martinet, K. Wohrer - Béroff, S. Della Negra, P. Désesquelles, H. Hamrita, A. Le Padellec, L. Montagnon, S. Diaz - Tendero, M. Alcami, P.A. Hervieux and F. Martin, "XXIV International Conference on Photonic Electronic and Atomic Collisions", Rosario, Argentine, 20 - 26 Juillet 2005
7. **“Electron spectroscopy in H⁺ to dry DNA, RNA collisions in the 25 – 100 keV energy range”**
A. Le Padellec (*orateur*) and P. Moretto - Capelle, "International Workshop on Radiation Damage of Water", Saint - Malo, France, 15 - 16 Mai 2006
8. **“Electron spectroscopy in H⁺ to dry DNA, RNA collisions in the 25 – 100 keV energy range”**
A. Le Padellec (*orateur*) and P. Moretto - Capelle, "Radiation damage in biomolecular systems" RADAM 06, Groningen, Pays-Bas, 06 - 09 Juin 2006
9. **“Electron emission and fragmentation of DNA / RNA components induced by proton impact”**
P. Moretto - Capelle (*orateur*), A. Le Padellec, M. Richard - Viard, J.P. Champeaux and P. Cafarelli, "XX International Symposium on Ion - Atom Collisions", Agios Nikolaos, Crète, Grèce 1 – 4 Août 2007
10. **“Merged beam experiments with positive and negative ions: from charge exchange to reactive scattering”**
X. Urbain (*orateur*), A. Le Padellec, E.M. Staicu - Casagrande, T. Nzeyimana and E.A. Naji, "ICPEAC 2007 - XXV International Conference on Photonic, Electronic and Atomic Collisions", Freiburg, Allemagne, 25 - 31 Juillet 2007

11. "Collision induced ionization and fragmentation of DNA / RNA bases and Halogen derivatives" P. Moretto – Capelle (*orateur*), P. Carçabal, P. Cafarelli, J.-P. Champeaux, A. Le Padellec, J. Rabier and M. Sence, "International Conference on Many particle spectroscopy of atoms, molecules, clusters and surfaces", Paris, France, 30 Juin - 2 Juillet 2008
 12. "Fragmentation des petits hydrocarbures CH, C₂H, C₃H multiplement chargés par collision atomique de haute vitesse" M. Chabot (*orateur*), K. Béroff, T. Pino, M. Barat, Y. Carpentier, G. Martinet, L. Lavergne, P. Desesquelles, A. Le Padellec et V.O. Nguyen Thi, "GDR 2758 Agrégation, Fragmentation et Thermodynamique de systèmes moléculaires complexes isolés", Paris, France, 23 - 25 Novembre 2009
 13. "Study and manufacturing of an APD arrays polarized in Geiger-mode for application in radiology for detection of cancer cells" K. Jradi (*orateur*), A. Le Padellec, A. Yalaoui, D. Esteve, O. Caselles, D. Toublanc et R. Bazer-Bachi, "Biophotonics: Photonic Solutions for Better Health Care - SPIE", Bruxelles, Belgique, 12 - 16 Avril 2010
 14. "Study, simulation and manufacturing of new Geiger-APD for applications in Astrophysics and Biology" K. Jradi (*orateur*), T. Camps, D. Pellion, A. Le Padellec, D. Estève and A.R. Bazer - Bachi, "International Conference on microelectronics - MIEL 2010", Nis, Serbie, 16 - 19 Mai 2010
-

ACTES DE CONGRES A COMITE DE LECTURE

1. "Dissociative recombination of ³HeH⁺ : comparison of spectra obtained with 100, 10 and 1meV temperature electron beams" A. Al-Khalili, H. Danared, M. Larsson, A. Le Padellec, R. Peverall, S. Rosén, J. Semaniak, M. af Ugglas, L. Vikor and W.J. van der Zande, Hyper. Inter., 114, 281, (1998).
 2. "Branching ratios in Dissociative Recombination measured in a storage ring" L. Vikor, A. Al-Khalili, H. Danared, N. Djuric, G.H. Dunn, M. Larsson, A. Le Padellec, S. Rosén and M. af Ugglas, AIP Conf. Proc., **475**, 146, (1999)
 3. "Recombination of Simple Molecular Ions Studied in Storage Ring – Dissociative Recombination of H₂O⁺" S. Rosén, A. Derkatch , J. Semaniak, A. Neau, A. Al-Khalili, A. Le Padellec, L. Vikor, H. Danared, M. af Ugglas, R. Thomas and M. Larsson, Faraday Discuss., 115, 295, (2000).
 4. "Relaxation de Na₃F photoexcité" J.-M. L'Hermite, V. Blanchet, A. Le Padellec et P. Labastie, Journal de physique IV, **119**, 211, (2004).
 5. "Ionization and fragmentation of DNA, RNA bases induced by proton impact" A. Le Padellec, P. Moretto – Capelle, M. Richard – Viard, J.-P. Champeaux and P. Cafarelli, J. Phys.: Conf. Ser., **101**, 012007, (2008).
 6. "Ionization and Fragmentation of 5-Chlorouracil induced by 100 keV protons collisions" P. Cafarelli, P. Carçabal, J.-P. Champeaux, A. Le Padellec, P. Moretto - Capelle, J. Rabier and M. Sence, AIP Conf. Proc., **1080**, 71, (2008).
 7. "Fragmentation of small carbon clusters, a review" K. Béroff, M. Chabot, F. Mezdari, G. Martinet, T. Tuna, P. Désesquelles and A. Le Padellec, Nucl. Instr. Methods Phys. Res. Sec. B, **267**(6), 866, (2009).
 8. "Study, Simulation and Manufacturing of new Geiger-APD for Applications in Astrophysics and Biology" K. Jradi, T. Camps, D. Pellion, D. Esteve, A. Le Padellec, and A.R. Bazer-Bachi, PROC. 27th INTERNATIONAL CONFERENCE ON MICROELECTRONICS (MIEL 2010), NIŠ, SERBIA, 16-19 MAY, 201, (2010).
-

ACTES DE CONGRES SANS COMITE DE LECTURE

1. "Dissociative recombination of H₃O⁺ and D₃O⁺: absolute cross sections and branching ratios" A. Neau, A. Le Padellec, A. Al Khalili, A.M. Derkatch, S. Rosen, W. Shi, L. Vikor, M. Larsson, J; Semaniak, R. Thomas, H. Danared, M. af Ugglas and M. Någård, Proceedings du "Symposium on Atomic and Surface Physics and related topics", Trento (Italie), 30 Janvier – 5 Février 2000, Eds: D. Bassi et P. Tosi p.PA15

2. "Fragmentation of small C_N^+ clusters ($N \leq 10$) following electronic excitation in high velocity collisions with atoms and comparison with photo-dissociation measurements"
T. Tuna, M. Chabot, K. Béroff, P. Désesquelles, A. Le Padellec, T. Pino, N.T. Van-Oanh, L. Lavergne, F. Mezdari, G. Martinet, M. Barat, L. Montagnon and B. Lucas, Proceedings du "International Astrophysics and Astrochemistry Meeting: Molecules in Space and Laboratory", Paris, France, 14 – 18 Mai 2007, Eds J.L. Lemaire et F Combes
 3. "Caractérisations électriques d'un SiPM et d'une APD-Geiger pour des futures applications en imagerie haute sensibilité"
K. Jradi, D. Pellion, A. Le Padellec, D. Estève et R. Bazer - Bachi, Proceedings des "Journées Nationales du Réseau Doctoral de Microélectronique – JNRDM 12^{ème} édition", Lyon, France, 18 – 20 Mai 2009
 4. "Modelization and design of Geiger-APD for applications in astrophysics and biology"
K. Jradi, D. Pellion, A. Le Padellec, D. Esteve, J.-L. Boizard, T. Camps, F. Moutier and A.R. Bazer-Bachi, Proceedings du "9th International workshop on Electronics, Control, Modelling, Measurement and Signals 2009", Mondragon Unibertsitatea, Espagne, 8 - 10 juillet 2009
-

RAPPORTS INTERNES

1. "Experimental studies of reactions of neutral and ionized PAH's"
S. Laubé, D. Pasquerault, A. Canosa, C. Rebrion, A Le Padellec, J.C. Gomet and D. Parent, *DARESBURY LABORATORY* – Newsletter on analysis of astronomical spectra, Nb 22 Oct 1995
2. "Electron-molecular ion collisions :experiments and theory"
M. Larsson, Å. Larson, A. Le Padellec, S. Rosén, J. Sémaniak, C. Strömholm, S. Datz, W. van der Zande, R. Peverall, J.R. Peterson, H. Danared, G.H. Dunn and M. af Ugglas, *MANNE SIEGBAHL LABORATORY* – RAPPORT ANNUEL 1996 p.47
3. "Electron-molecular ion collisions :experiments and theory"
M. Larsson, S. Rosén, A. Al-Khalili, A. Le Padellec, L. Vikor, Å. Larson, J. Sémaniak, I.F. Schneider, C. Strömholm, S. Datz, W. van der Zande, R. Peverall, J.R. Peterson, G.H. Dunn, N. Djuric, A. Suzor - Weiner, A. Orel, H. Danared and M. af Ugglas, *MANNE SIEGBAHL LABORATORY* – RAPPORT ANNUEL 1997 p.78
4. "Dissociative recombination and excitation of CH_5^+ : absolute cross sections and branching fractions"
J. Semaniak, Å. Larson, A. Le Padellec, C. Strömholm, M. Larsson, S. Rosén, R. Peverall, H. Danared, N. Djuric, G.H. Dunn and S. Datz, *ORNL Physics Division – Atomic Physics* – Progress report 96-98
5. "Branching fractions in dissociative recombination of NH_4^+ and NH_2^+ "
L. Vikor, A. Al-Khalili, H. Danared, N. Djuric, G.H. Dunn, M. Larsson, A. Le Padellec, S. Rosén and M. af Ugglas, *MANNE SIEGBAHL LABORATORY* - RAPPORT ANNUEL 1998 p.60
6. "Dissociative recombination and excitation of O_2^+ : cross sections and production yields"
R. Peverall, W. van der Zande, S. Rosén, M. Larsson, A. Al-Khalili, L. Vikor, A. Le Padellec, J.R. Peterson, J. Semaniak, R. Bobbenkamp, H. Danared and M. af Ugglas, *MANNE SIEGBAHL LABORATORY* - RAPPORT ANNUEL 1998 p.66
7. "Resonant ion pair formation in electron collisions with ground state molecular ions"
W. Zong, G.H. Dunn, N. Djuric, M. Larsson, A. Al-Khalili, A. Neau, A.M. Derkatch, L. Vikor, W. Shi, A. Le Padellec, S. Rosén, H. Danared, and M. af Ugglas, *MANNE SIEGBAHL LABORATORY* - RAPPORT ANNUEL 1998 p.68
8. "Dissociative recombination of D_3O^+ AND H_3O^+ : Absolute cross sections and branching ratios"
A. Neau, A. Al-Khalili, S. Rosén, A. Le Padellec, A.M. Derkatch, W. Shi, L. Vikor, M. Larsson, J. Semaniak, R. Thomas, M. B. Någård, K. Andersson, H. Danared and M. af Ugglas, *MANNE SIEGBAHL LABORATORY* - RAPPORT ANNUEL 1999 p.67
9. "Recombination of simple molecular ions studied in storage ring – dissociative recombination of H_2O^{+} "
S. Rosen, A.M. Derkatch, J. Semaniak, A. Neau, A. Al-Khalili, A Le Padellec, L. Vikor, M. Larsson, R. Thomas, H. Danared and M. af Ugglas, *MANNE SIEGBAHL LABORATORY* - RAPPORT ANNUEL 1999 p.64
10. "Intercomparison of storage ring : HD^+ at ASTRID, CRYRING and TSR"
L.H. Andersen *et.al.*, A. Al-Khalili, A.M. Derkatch, A. Le Padellec, A. Neau, W. Shi, S. Rosén, R. Thomas, L. Vikor, W. Zong, M. Larsson, W. van der Zande, M. Lange, J. Levin, G. Gwinner, D.

Schwalm, R. Wester, A. Wolf and D. Zajfman, *MANNE SIEGBAHN LABORATORY - RAPPORT ANNUEL* 1999 p.69

11. "Resonant Ion Pair formation in electron collisions with NO⁺"
N. Djurić, D.B. Popović, G.H. Dunn, A. Al-Khalili, A.M. Derkatch, A. Neau, S. Rosén, J. Semaniak, W. Zong, M. Larsson, A. Le Padellec, R. Thomas, H. Danared and M. af Ugglas, *MANNE SIEGBAHN LABORATORY - RAPPORT ANNUEL* 1999 p.71
12. "The Negative ion project at Cryring"
K. Andersson, D. Hanstorp, A. Neau, S. Rosén, H. Schmidt, J. Semaniak, R. Thomas, M. Larsson and A. Le Padellec, *MANNE SIEGBAHN LABORATORY - RAPPORT ANNUEL* 1999 p.57
13. "Resonant Ion Pair formation in in the recombination of NO⁺ with electrons: cross section determination"
A. Le Padellec, N. Djurić, A. Al-Khalili, H. Danared, A.M. Derkatch, A. Neau, D.B. Popović, S. Rosén, J. Semaniak, R. Thomas, M. af Ugglas, W. Zong and M. Larsson, *MANNE SIEGBAHN LABORATORY - RAPPORT ANNUEL* 2000 p.76
14. "The Negative ion project at Cryring"
K. Andersson, D. Hanstorp, A. Neau, F. Hellberg, S. Rosén, H. Schmidt, J. Semaniak, R. Thomas, M. Larsson, A. Le Padellec, D. Pegg, H. Danared, A. Källberg and F. Österdahl, *MANNE SIEGBAHN LABORATORY - RAPPORT ANNUEL* 2000 p.80
15. "Relative cross sections for the Electron Impact Single Detachment on Li⁻"
A. Le Padellec, G.F. Collins, H. Danared, A. Källberg, F. Hellberg, K. Andersson, D. Hanstorp and M. Larsson, *MANNE SIEGBAHN LABORATORY - RAPPORT ANNUEL* 2001 p.84
16. "The negative ion project at CRYRING"
K. Andersson, J. Sandström, D. Hanstorp, A. Ehlerding, F. Hellberg, M. Larsson, S. Mannervik, A. Neau, L.O. Nordin, S. Rosen, D. Rostahar, P. Royen, P. Scheif, J. Semaniak, R. Thomas, A. Le Padellec, D. Pegg, H. Danared, A. Källberg and G.F. Collins, *MANNE SIEGBAHN LABORATORY - RAPPORT ANNUEL* 2001 p.81
17. "Rapport d'activité 1998 – 2001"
P. Labastie, A. Le Padellec, J.-M. L'Hermite, M. Sence, *LABORATOIRE COLLISIONS AGREGATS REACTIVITE*
18. "Rapport d'activité 2002 – 2005"
P. Labastie, J.-M. L'Hermite, S. Zamith, A. Le Padellec, A. Bordenave - Montesquieu, D. Bordenave - Montesquieu, P. Moretto - Capelle, *LABORATOIRE COLLISIONS AGREGATS REACTIVITE*
19. "Fragmentation of multiply-charged carbon clusters"
M. Chabot, G. Martinet, S. Della Negra, P. Desequelles, T. Tuna in collaboration with L.C.A.M. and L.C.A.R., Particle Matter Interaction – *Institut de Physique Nucléaire - RAPPORT ANNUEL 2004 – 2005* p.116
20. " Rapport d'activité 2005 - 2009"
P. Cafarelli, J.-P. Champeaux, A. Le Padellec, P. Moretto - Capelle, M. Richard - Viard, M. Sence, *LABORATOIRE COLLISIONS AGREGATS REACTIVITE*
21. " Rapport d'activité 2005 - 2009"
P J. Knörlseder, R. Bazer - Bach, V. Borrel, J.-P. Dezalay, A. Le Padellec, I. Malet, F. Moutier et J.-F. Olive, *CENTRE D'ETUDE SPATIALE DES RAYONNEMENTS*

AFFICHES

1. "Experimental Studies of reactions of neutral and ionised PAH's"
S. Laubé, D. Pasquerault, A. Canosa, C. Rebrion - Rowe, A. Le Padellec, J.C. Gomet and D. Parent
"The fifth European Conference on atomic and molecular Physics - ECAMP 5" Edimburg (Grande - Bretagne) 3-7 Avril 1995
"Third International Symposium on Dissociative Recombination: Theory, Experiment and applications" Ein Gedi (Israël) 29 Mai-2 Juin 1995
"First Franco-British Meeting on the Physics and Chemistry of the Interstellar Medium" Lille (France) 10 - 12 Juillet 1995
2. "Experimental studies of Dissociative Recombination of H₃⁺ and KrH⁺"
A. Le Padellec, S. Laubé, C. Rebrion - Rowe, O. Sidko and B. Rowe

“Third International Symposium on Dissociative Recombination: Theory, Experiment and applications” Ein Gedi (Israël) 29 Mai-2 Juin 1995

“First Franco-British Meeting on the Physics and Chemistry of the Interstellar Medium” Lille (France) 10 - 12 Juillet 1995

“Second General Meeting of the Network SRMI” Berlin (Allemagne) 10 - 14 Juillet 1995

3. “Experimental studies of Dissociative Recombination of H_3^+ , KrH^+ and XeH^+ ”

A. Le Padellec, S. Laubé, C. Rebrion - Rowe, O. Sidko, J.C. Gomet and B. Rowe

“Symposium on atomic, cluster and surface Physics - SASP ” Engelberg (Suisse) 21 - 26 Janvier 1996

4. “DR of rare gas hydrides”

A. Le Padellec, S. Laubé, B. Sarpal, J.B.A. Mitchell, B. Rowe and C. Rebrion - Rowe

“III annual meeting of the European Network Structure and Reactivity of Molecular Ions” Riva del Garda Trento (Italie) 13 - 16 Mai 1996

“Second Europhysics Study Conference on Photon and Electron Collisions with Atoms and Molecules” Belfast (Irlande du nord) 23-26 Juillet 1996

5. “DR des ions H_3^+ , KrH^+ et XeH^+ par la méthode FALP-MS”

S. Laubé, A. Le Padellec, O. Sidko, C. Rebrion - Rowe, J.B.A. Mitchell and B.R. Rowe

“Congrès de la société française de physique (SFP) sur la physique des plasmas” Grenoble (France) 5 - 7 Février 1997

6. “Dissociative recombination and excitation of D_3^+ : isotope and electric effect”

M. Larsson, H. Danared, Å. Larson, A. Le Padellec, J.R. Peterson, S. Rosen, J. Semaniak and C. Strömholm

“XX International conference on the physics of electronic and atomic collisions” Vienne (Autriche) 23 - 29 Juillet 1997

7. “Dissociative recombination and excitation of N_2^+ : cross sections and branching ratios”

J.R. Peterson, H. Danared, G.H. Dunn, M. Larsson, Å. Larson, A. Le Padellec, R. Peverall, C. Strömholm, S. Rosen, M. af Ugglas and W. van der Zande

“XX International conference on the physics of electronic and atomic collisions” Vienne (Autriche) 23 - 29 Juillet 1997

8. “Dissociative recombination of CH_5^+ : total cross sections and branching fractions”

S. Datz, S. Rosen, C. Strömholm, J. Semaniak, Å. Larson, A. Le Padellec, N. Djuric, R. Peverall, H. Danared and M. Larsson

“XX International conference on the physics of electronic and atomic collisions” Vienne (Autriche) 23 - 29 Juillet 1997

9. “Dissociative Recombination of CH_2^{+} ”

Å. Larson, A. Le Padellec, J. Semaniak, C. Strömholm, M. Larsson, S. Rosén, R. Peverall, H. Danared, N. Djuric and S. Datz

“Twenty fourth international symposium on free radicals” Dalarna (Suède) 17 - 22 Août 1997

10. “A storage ring study of Dissociative Recombination of CH_5^+ ”

Å. Larson, A. Le Padellec, C. Strömholm, J. Semaniak, M. Larsson, S. Rosén, R. Peverall, H. Danared, N. Djuric, G.H. Dunn and S. Datz

“Twenty fourth international symposium on free radicals” Dalarna (Suède) 17 - 22 Août 1997

11. “Storage ring determination of absolute cross sections and final states for Dissociative Recombination and Excitation of CO^+ ”

S. Rosén, M. Larsson, A. Le Padellec, J. Semaniak, Å. Larson, C. Strömholm, W. Van der Zande, R. Peverall, H. Danared and G.H. Dunn

“Twenty fourth international symposium on free radicals” Dalarna (Suède) 17 - 22 Août 1997

12. “Storage ring technique: a tool to study electron-molecular ion interactions”

A. Le Padellec, S. Rosén, J. Semaniak, M. Larsson, Å. Larson, C. Strömholm, W. Van der Zande, R. Peverall, J. Peterson, H. Danared, S. Datz, N. Djuric and G.H. Dunn

“Third euroconference on Atomic Physics with Stored Highly Charged Ions” Ferrara (Italie) 22 - 26 Septembre 1997

13. “A time and position sensitive detector for molecular fragmentation”

S. Rosén, H. Danared, G.H. Dunn, H. ter Horst, M. Larsson, Å. Larson, A. Le Padellec, J. Peterson, R. Peverall, G. Sundström, J. Semaniak, C. Strömholm, M. af Ugglas, M. de Wilde and W. Van der Zande

“Third euroconference on Atomic Physics with Stored Highly Charged Ions” Ferrara (Italie) 22 - 26 September 1997

- 14. “Branching fractions in dissociative recombination of NH₄⁺”**
 L. Vikor, A. Al-Khalili, H. Danared, N. Djuric, G.H. Dunn, M. Larsson, A. Le Padellec, S. Rosén and M. af Uggles
 “Sixth European Conference on Atomic and Molecular Physics” Sienne (Italie) 14 - 18 Juillet 1998
- 15. “Branching ratios in Dissociative Recombination measured in a storage ring”**
 L. Vikor, A. Al-Khalili, H. Danared, N. Djuric, G.H. Dunn, M. Larsson, A. Le Padellec, S. Rosén and M. af Uggles
 “Fifteenth International Conference on the Application of Accelerators in Research and Industry” Denton (Texas, USA) 4 - 7 Novembre 1998
- 16. “Intercomparison of storage rings: HD⁺ at ASTRID, CRYRING and TSR”**
 L.H. Andersen, P.J. Johanson, D. Kella, H.B. Pedersen, L. Vejby-Christensen, A. Al-Khalili, A.M. Derkatch, A. Le Padellec, A. Neau, W. Shi, S. Rosén, R. Thomas, L. Vikor, W. Zong, M. Larsson and W. van der Zande, M. Lange, J. Levin, G. Gwinner, D. Schwalm, R. Wester, A. Wolf and D. Zajfman
 “Fourth International Conference on DISSOCIATIVE RECOMBINATION: Theory, Experiment and Applications” Nässlingen (Stockholm, Suède) 16 - 20 Juin 1999
- 17. “The Dissociative Recombination of O₂⁺ and the Oxygen Green Airglow: A Surprising Dependence on Electron Temperature”**
 R. Peverall, S. Rosén, J.R. Peterson, M. Larsson, L. Vikor, J. Semaniak, A. Le Padellec, H. Danared, M. af Uggles, A. Al-Khalili, R. Bobbenkamp, A. Maurellis, S.L. Guberman and W. van der Zande
 “Fourth International Conference on DISSOCIATIVE RECOMBINATION: Theory, Experiment and Applications” Nässlingen (Stockholm, Suède) 16 - 20 Juin 1999
- 18. “Resonant ion pair formation in electron collisions with ground state molecular ions”**
 W. Zong, G.H. Dunn, N. Djuric, M. Larsson, C.H. Greene, A. Al-Khalili, A. Neau, A.M. Derkatch, L. Vikor, W. Shi, A. Le Padellec, S. Rosén, H. Danared, and M. af Uggles
 “Fourth International Conference on DISSOCIATIVE RECOMBINATION: Theory, Experiment and Applications” Nässlingen (Stockholm, Suède) 16 - 20 Juin 1999
- 19. “Dissociative Recombination and excitation of O₂⁺ : cross sections and product yields”**
 R. Peverall, S. Rosén, J.R. Peterson, M. Larsson, A. Al-Khalili, L. Vikor, J. Semaniak, R. Bobbenkamp, A. Le Padellec, H. Danared, M. af Uggles and W. van der Zande
 “XXI International conference on the physics of electronic and atomic collisions” Sendai (Japon) 22 - 27 Juillet 1999
- 20. “Resonant ion pair formation (RIP) in electron - molecular ion collisions”**
 W. Zong, G.H. Dunn, N. Djuric, M. Larsson, A. Al-Khalili, A. Neau, A.M. Derkatch, L. Vikor, W. Shi, A. Le Padellec, S. Rosén, H. Danared, and M. af Uggles
 “XXI International conference on the physics of electronic and atomic collisions” Sendai (Japon) 22 - 27 Juillet 1999
- 21. “Dissociative Recombination of O₂⁺ and the green airglow”**
 M. Larsson, A. Al-Khalili, S. Rosén, L. Vikor, J. Semaniak, A. Le Padellec, H. Danared, M. af Uggles, R. Peverall, W. van der Zande, R. Bobbenkamp and J.R. Peterson
 “25th International Free Radical Symposium” Flagstaff, Arizona (USA) 15 - 20 Août 1999
- 22. “Branching ratio measurements for Dissociative Recombination of polyatomic ions”**
 A. Neau, A. Al-Khalili, S. Rosén, A.M. Derkatch, L. Vikor, W. Zong, A. Le Padellec, H. Danared, M. af Uggles and M. Larsson
 “Meeting of the Atomic and Molecular Physics Section of the Swedish Physical Society” Goteborg (Suède) 11 - 12 Novembre 1999
- 23. “Dissociative recombination of H₃O⁺ and D₃O⁺: absolute cross sections and branching ratios”**
 A. Neau, A. Le Padellec, A. Al-Khalili, A.M. Derkatch, S. Rosen, W. Shi, L. Vikor, M. Larsson, J. Semaniak, R. Thomas, H. Danared, M. af Uggles and M. Någård
 “Symposium on Atomic and Surface Physics and related topics” Trento (Italie) 30 Janvier – 5 Février 2000
- 24. “Photoelectron angular distribution by single-photon detachment of Al⁻, Al₂⁻ and Al₃⁻”**
 K. Andersson, M. Andersson, D. Hanstorp, D. Pegg and A. LePadellec
 “Nordic spring school in Atomic Physics - Spectroscopy and collision dynamics with highly charged ions” Abisko Scientific Research Station (Suède) 13 – 17 Mai 2000
- 25. “Formation d'ions moléculaires diatomiques et triatomiques par ionisation associative entre O⁻ et C⁺, N⁺, O⁺, CO⁺, N₂⁺”**
 T. Nzeyimana, A. Naji, A. Le Padellec et X. Urbain
 “Congrès de la Société Belge de Physique” Louvain-La-Neuve (Belgique) 25 – 26 Mai 2000

- 26. "The metastable fragmentation of silver bromide clusters"**
F. Rabilloaud, A. Le Padellec, P. Labastie, J.-M. L'Hermite and F. Spiegelmann
"Nobel Symposium on cluster physics 2000" Wisby Hotel - Visby - Goteland (Suède) 27 Juin – 02 Juillet 2000
- 27. "Electron impact detachment of negative ions using a storage ring"**
K. Andersson, D. Hanstorp, A. Neau, S. Rosén, H.T. Schmidt, J. Semaniak, R. Thomas, M. Larsson, A. Le Padellec, F. Österdahl, H. Danared, A. Källberg and D. Pegg
"EURO SUMMER SCHOOL: DYNAMICS OF MOLECULAR COLLISIONS" Weizmann Institute of Science - Rehovot (Israel) 11 – 15 Septembre 2000
- 28. "Resonant Ion-Pair Formation Studies at CRYRING"**
W. Zong, Å. Larson, A. Le Padellec, N. Djuric, A. Neau, J. Semaniak, D.B. Popovic, A. Al-Khalili, S. Rosén, R. Thomas, A.M. Derkatch, W. Shi, L. Vikor, H. Danared, M. af Uggglas, C.H. Greene, A.E. Orel, G.H. Dunn and M. Larsson
"EURO SUMMER SCHOOL: DYNAMICS OF MOLECULAR COLLISIONS" Weizmann Institute of Science – Rehovot (Israel) 11 – 15 Septembre 2000
- 29. "Resonant Ion-Pair Formation of HD⁺, NO⁺ and H₃⁺⁺"**
A. Neau, W. Zong, Å. Larson, N. Djuric, A. Le Padellec, A. Al-Khalili, H. Danared, A. Derkatch, C.H. Green, A.E. Orel, D. Popovic, S. Rosén, J. Semaniak, W. Shi, R. Thomas, L. Vikor, M. af Uggglas, M. Larsson and G.H. Dunn
"ECAMP VII - THE SEVENTH EUROPEAN CONFERENCE ON ATOMIC AND MOLECULAR PHYSICS" Berlin (Allemagne) 2 – 6 Avril 2001
- 30. "Electron scattering of Negative Ions in a Storage Ring"**
K. Andersson, D. Hanstorp, A. Neau, S. Rosén, H. Schmidt, J. Semaniak, R. Thomas, M. Larsson, F. Hellberg and A. Le Padellec
"ECAMP VII - THE SEVENTH EUROPEAN CONFERENCE ON ATOMIC AND MOLECULAR PHYSICS" Berlin (Allemagne) 2 – 6 Avril 2001
- 31. "Resonant ion pair formation in the recombination of NO⁺ with electrons: cross section determination"**
A. Le Padellec, N. Djuric, A. Al-Khalili, H. Danared, A. Derkatch, A. Neau, D. Popovic, S. Rosén, J. Semaniak, R. Thomas, M. af Uggglas, W. Zong and M. Larsson
"ICPEAC 2001 - XXII International Conference on Photonic, Electronic and Atomic Collisions" Santa Fe, New Mexico, (USA) 18-24 Juillet 2001
- 32. "Resonant ion pair formation and dissociative recombination in electron collisions with ground state HF⁺ ions"**
N. Djuric, A. Al-Khalili, H. Danared, A.M. Derkatch, A. Le Padellec, A. Neau, S. Rosen, W. Shi, M. af Uggglas, L. Vikor, W. Zong, M. Larsson and G.H. Dunn
"ICPEAC 2001 - XXII International Conference on Photonic, Electronic and Atomic Collisions" Santa Fe, New Mexico, (USA) 18-24 Juillet 2001
- 33. "Electron scattering of negative ions in a storage ring"**
K. Andersson, D. Hanstorp, A. Neau, S. Rosen, H. Schmidt, J. Semaniak, R. Thomas, M. Larsson, F. Hellberg, A. Le Padellec and D. Pegg
"ICPEAC 2001 - XXII International Conference on Photonic, Electronic and Atomic Collisions" Santa Fe, New Mexico, (USA) 18-24 Juillet 2001
- 34. "Merged beam study of associative ionisation in collisions of O⁻ with C⁺, N⁺ and O⁺⁺"**
T. Nzeyimana, A. Naji, A. Le Padellec and X. Urbain
"ICPEAC 2001 - XXII International Conference on Photonic, Electronic and Atomic Collisions" Santa Fe, New Mexico, (USA) 18-24 Juillet 2001
- 35. "Orientation of permanent dipoles in an electric field : superpolarisability of salt clusters"**
I. Compagnon, D. Rayane, R. Antoine, M. Broyer, A.R. Allouche, P. Dugourd, J.-M. L'Hermite, A. Le Padellec, P. Labastie, F. Spiegelman, M.-C. Heitz, F. Calvo and G. Durand
"Clusters, nanocrystals and nanostructures" Connecticut College, New London, CT, (USA) 29 Juillet-3 Août 2001
- 36. "Electron collisions on C₄: detachment and dissociation"**
A. Le Padellec, F. Rabilloaud, D. Pegg, K. Andersson, D. Hanstorp, A. Neau, M. Larsson, F. Hellberg and R. Thomas
"Clusters, nanocrystals and nanostructures" Connecticut College, New London, CT, (USA) 29 Juillet-3 Août 2001

"International Symposium on the Dissociative Recombination of Molecules with Electrons: Theory, Experiment, and Applications" Chicago, Illinois, (USA) 26-30 Août 2001

37. "Merged beam studies of the associative ionisation process"

A. Le Padellec, X. Urbain, T. Nzeyimana and E.A. Naji

"International Symposium on the Dissociative Recombination of Molecules with Electrons: Theory, Experiment, and Applications" Chicago, Illinois, (USA) 26-30 Août 2001

38. "Moments dipolaires électriques et polarisabilités des agrégats de sodium et de fluor ayant un électron excédentaire"

M. Broyer, R. Antoine, P. Dugourd, D. Rayane, P. Labastie, J.-M. L'Hermite, A. Le Padellec, A.R. Allouche, F. Spiegelman, F. Calvo et G. Durand

"GDR Agrégats, dynamique et réactivité" Lyon, (France) 10-11 Juin 2002

39. "Etude de l'association ionisante en faisceaux confluentes"

A. Le Padellec, X. Urbain, T. Nzeyimana and E.A. Naji

"PAMO 2002 – JSM 2002" Bourges, (France) 01-03 Juillet 2002

40. "Measurements and calculations of electric dipole moments and polarizabilities of $\text{Na}_n\text{F}_{n-1}$ clusters"

D. Rayane, I. Compagnon, R. Antoine, M. Broyer, P. Dugourd, P. Labastie, J.-M. L'Hermite, A. Le Padellec, F. Spiegelman, F. Calvo, G. Durand and A.R. Allouche

"ISSPIC 11" Strasbourg, (France) 09-13 Septembre 2002

41. "Molecular motion of Na_3F : femtosecond pump-probe experiment"

P. Labastie, A. Le Padellec, J.-M. L'Hermite, V. Blanchet and B. Lamory

"ISSPIC 11" Strasbourg, (France) 09-13 Septembre 2002

42. "Etude expérimentale de la dynamique de l'agrégat Na_3F par spectroscopie pompe-sonde femtoseconde"

A. Le Padellec, P. Labastie, V. Blanchet et J.-M. L'Hermite

"GDR Agrégats, dynamique et réactivité" Paris, (France) 13-15 Janvier 2003

43. "Relaxation of photoexcited Na_3F "

J.-M. L'Hermite, V. Blanchet, A. Le Padellec and P. Labastie

"Sixth International Conference on femtochemistry", Maison de la chimie, Paris, (France) 06-10 Juillet 2003

44. "Merged-beam study of associative ionization in collisions of C^- with C^+ , N^+ and O^{++} "

E.M. Staicu - Casagrande, N. de Ruette, A. Le Padellec, E.A. Naji, T. Nzeyimana and X. Urbain

"International Scientific Meeting – SBP", Ghent University, (Belgium) 27-28 May 2003

"ICPEAC 2003 - XXIII International Conference on Photonic, Electronic and Atomic Collisions", Stockholm, (Suède) 23-29 July 2003

45. "Insertion and abstraction mechanisms in collisions of O^- with H_2^+ and CH^+ "

M. Staicu - Casagrande, T. Nzeyimana, E.A. Naji, A. Le Padellec and X. Urbain

"ETR Summer School & Network Meeting", University College London, (Grande Bretagne) 01-05 Septembre 2003

46. "Relaxation de Na_3F photoexcité"

J.-M. L'Hermite, V. Blanchet, A. Le Padellec and P. Labastie

"COLOQ 8-HORIZONS'03", Toulouse, (France) 03-05 Septembre 2003

47. "A molecular approach of ice nucleation"

J.-M. L'Hermite, A. Le Padellec and P. Labastie

"Ice, soot and aviation : what impact on environment?", La Londe Les Maures (France) 10-14 Mai 2004

48. "Fragmentation of highly-excited small neutral carbon clusters"

G. Martinet, S. Diaz - Tendero, M. Chabot, K. Wohrer - Béroff, S. Della Negra, F. Mezdari, H. Hamrita, P. Désesquelles, A. Le Padellec, D. Gardès, L. Lavergne, G. Lalu, X. Grave, J.-F. Clavelin, P.A. Hervieux, M. Acalmi, and F. Martin

GDR " Agrégation, Fragmentation et Thermodynamique de Systèmes Moléculaires Complexes Isolés ", Paris (France) Juin 2004

49. "Carbon clusters-atom collisions at intermediate velocity"

F. Mezdari, G. Martinet, M. Chabot, K. Wohrer, S. Della Negra, H. Hamrita and A. Le Padellec

"ECAMP VIII - THE EIGHT EUROPEAN CONFERENCE ON ATOMIC AND MOLECULAR PHYSICS" Rennes (France) 6 - 10 Juillet 2004

- 50. "Fragmentation of small neutral carbon clusters"**
 G. Martinet, S. Diaz - Tendero, M. Chabot, K. Wohrer, S. Della Negra, F. Mezdari, H. Hamrita, P. Desquenelles, A. Le Padellec, D. Gardes, L. Lavergne, G. Lalu, X. Grave, J.-F. Clavelin, P.A. Hervieux, A. Alcami and F. Martin
 "ECAMP VIII - THE EIGHT EUROPEAN CONFERENCE ON ATOMIC AND MOLECULAR PHYSICS" Rennes (France) 6 - 10 Juillet 2004
- 51. "Insertion and abstraction mechanisms in collisions of O⁻ with H₂⁺ and CH⁺"**
 E.M. Staicu - Casagrande, N. De Ruette, A. Le Padellec, E.A. Naji, T. Nzeyimana and X. Urbain
 "ECAMP VIII - THE EIGHT EUROPEAN CONFERENCE ON ATOMIC AND MOLECULAR PHYSICS" Rennes (France) 6 - 10 Juillet 2004
- 52. "Collisions between protons and biomolecules : electron emission and molecular fragmentation"**
 A. Le Padellec and P. Moretto - Capelle
 "RADAM 05: Radiation Damage in Biomolecular Systems" Berlin (Allemagne) 16 – 20 Mars 2005
- 53. "Fragmentation of multiply-charged carbon clusters"**
 F. Mezdari, G. Martinet, S. Della Negra, H. Hamrita, L. Lavergne, P. Désesquelles, A. Le Padellec, D. Gardès, M. Barat, M. Chabot and K. Wohrer
 "ICPEAC 2005 - XXIV International Conference on Photonic, Electronic and Atomic Collisions", Rosario, (Argentine) 20-26 July 2005
- 54. "Charge transfer in high velocity Cn⁺ - He collisions"**
 F. Mezdari, G. Martinet, S. Della Negra, H. Hamrita, L. Lavergne, P. Désesquelles, A. Le Padellec, D. Gardès, M. Barat, M. Chabot, K. Wohrer, S. Diaz -Tendero, P.A. Hervieux, M. Alcami and F. Martin
 "ICPEAC 2005 - XXIV International Conference on Photonic, Electronic and Atomic Collisions", Rosario, (Argentine) 20-26 July 2005
- 55. "Collisions entre protons et biomolécules émission électronique et fragmentation moléculaire"**
 A. Le Padellec and P. Moretto - Capelle
 "CONGRES GENERAL SFP/BPS", Lille, (France) 29 Août - 02 septembre 2005
 "7ème Colloque International de Radiobiologie Fondamentale et Appliquée", Manoir des sables, Orford, Québec, (Canada) 19 – 23 septembre 2005
- 56. "Secondary particles emission induced by collision on gas phase and surface deposited DNA-RNA bases"**
 P. Moretto - Capelle, M. Richard - Viard, A. Le Padellec and P. Cafarelli
 "24th Miller Conference on Radiation Chemistry", La Londe les Maures, (France) 10-15 September 2005
- 57. "Delayed fragmentation of doubly charged adenine observed in 100 keV proton collisions"**
 F. Francieries, A. Le Padellec and P. Moretto - Capelle
 "Radiation damage in biomolecular systems", RADAM 06, Groningen, Pays-Bas, 06 - 09 Juin 2006
- 58. "Proton biomolecule collisions"**
 M. Richard - Viard, A. Le Padellec, J.P. Champeaux, P. Cafarelli and P. Moretto - Capelle
 "Symposium on Radiation Effects of Biomedical Interest", Madrid, Espagne, 22 - 25 Février 2007
- 59. "Ionization and fragmentation of DNA, RNA bases induced by proton impact"**
 P. Moretto - Capelle, A. Le Padellec, M. Richard - Viard, J.-P. Champeaux and P. Cafarelli
 "Radiations Médicales: Recherche et Applications - RMRA' 07", Marrakech, Maroc, 04 - 06 Avril 2007
- 60. "Collision induced dissociation on adenine"**
 A. Le Padellec, M. Richard - Viard, P. Moretto - Capelle, J.-P. Champeaux and P. Cafarelli
 "Radiation damage in biomolecular systems", RADAM 07, Dublin, Irlande, 19 – 22 Juin 2007
- 61. "Fragmentation of small C_n and C_nH molecules following electronic excitation in high velocity collisions with atoms"**
 T. Tuna, M. Chabot, K. Béroff, P. Désesquelles, A. Le Padellec, T. Pino, L. Lavergne, F. Mezdari, G. Martinet, M. Barat, L. Montagnon and B. Lucas
 "Molecules in Space and Laboratory ", Paris, France, 14 – 18 Mai 2007
- 62. "Experimental techniques to measure fragmentation Branching Ratios of isolated and excited molecules"**
 T. Tuna, M. Chabot, K. Béroff, P. Désesquelles, A. Le Padellec, T. Pino, L. Lavergne, F. Mezdari, G. Martinet, M. Barat, L. Montagnon and B. Lucas
 "Molecules in Space and Laboratory", Paris, France, 14 – 18 Mai 2007

- 63. "Fragmentation Branching Ratios for small C_nH^{q+} ($n \leq 4$, $q \leq 10$) following electronic excitations in high velocity collisions"**
 M. Chabot, T. Tuna, K. Béroff, P. Désesquelles, A. Le Padellec, T. Pino, L. Lavergne, F. Mezdari, G. Martinet, M. Barat, L. Montagnon and B. Lucas
 "ICPEAC 2007 - XXV International Conference on Photonic, Electronic and Atomic Collisions", Friburg, Allemagne, 25 - 31 Juillet 2007
- 64. "Fragmentation of C_n ($n < 11$) and C_nH ($n < 5$) species following electron capture in high velocity collisions of Cn^+ and CnH^+ with Helium atoms"**
 K. Béroff, T. Tuna, M. Chabot, P. Désesquelles, A. Le Padellec, L. Lavergne, F. Mezdari, G. Martinet, M. Barat, L. Montagnon, and B. Lucas
 "DR 2007 – Symposium Dissociative Recombination", Ameland, Pays-Bas, 18 - 23 Juillet 2007
- 65. "Collision induced dissociation on elementary biomolecular systems"**
 J.-P. Champeaux, A. Le Padellec, P. Moretto - Capelle, M. Richard - Viard and P. Cafarelli
 "ICPEAC 2007 - XXV International Conference on Photonic, Electronic and Atomic Collisions", Friburg, Allemagne, 25 - 31 Juillet 2007
- 66. "Dissociation induite par collision de Molécules Biologiques Élémentaires"**
 P. Cafarelli, J.-P. Champeaux, A. Le Padellec, P. Moretto-Capelle and M. Richard-Viard
 "8ème Colloque International de Radiobiologie Fondamentale et Appliquée", La Londe Les Maures - France, 16 - 21 Septembre 2007
- 67. "Ionization and fragmentation of DNA-RNA bases induced by proton impact: experiment and calculations on doubly charged bases"**
 J.-P. Champeaux, P. Moretto - Capelle, P. Cafarelli, M. Sence and A. Le Padellec
 "Isolated biomolecules and biomolecular interactions", Valladolid, Espagne, 13 - 18 Avril 2008
 "3rd Annual Meeting- 2nd Summer School ITS LEIF", Da Balaia, Portugal, 19 – 24 Mai 2008
- 68. "Branching Ratio for C_3H_2 and $C_3H_2^+$ following electronic excitation"**
 M. Chabot, T. Tuna and K. Beroff for the AGAT collaboration
 "The Molecular Universe: an International Meeting on the Physics and Chemistry of the Interstellar Medium", Arcachon, France, 5 - 8 Mai 2008
- 69. "Ionization and fragmentation of radiosensibilizing molecules upon 100 keV protons collisions: evidence for keto to enol tautomerism for Uracil and halogenated derivatives"**
 P. Cafarelli, P. Çarçabal, J.-P. Champeaux, A. Le Padellec, P. Moretto - Capelle, J. Rabier and M. Sence
 "RADAM 08: Radiation damage in biomolecular systems", Debrecen, Hongrie, 13 - 15 Juin 2008
- 70. "Rapports de branchement de molécules CnH et CnH^+ électriquement excitées"**
 T. Tuna, M. Chabot, K. Béroff, T. Pino, P. Désesquelles, V. Nguyen-Thi, G. Martinet, A. Le Padellec, M. Barat et B. Lucas
 "PAMO 2008 – JSM 2008", Lille - Villeneuve d'Ascq, France, 7 - 10 juillet 2008
- 71. " Ionization and Fragmentation of the Pyrimidine bases induced by 100 keV proton collisions "**
 M. Sence, P. Cafarelli, P. Çarçabal, J.-P. Champeaux, A. Le Padellec, P. Moretto - Capelle
 "RADAM 09: Radiation damage in biomolecular systems", Frankfurt am Main, Allemagne, 1 - 5 Juillet 2009
- 72. "Utilisation de SiPM en astronomie gamma"**
 K. Jradi, D. Pellion, A. Le Padellec, D. Esteve, J.-L. Boizard, T. Camps, F. Moutier and A.R. Bazer-Bachi
 "Congrès Général de la Société Française de Physique", Palaiseau - Ecole Polytechnique, France, 6 - 10 juillet 2009
- 73. "Modelization and design of Geiger-APD for applications in astrophysics and biology"**
 K. Jradi, D. Pellion, A. Le Padellec, D. Esteve, J.-L. Boizard, T. Camps, F. Moutier and A.R. Bazer-Bachi
 "9th International workshop on Electronics, Control, Modelling, Measurement and Signals 2009", Mondragon Unibertsitatea, Espagne, 8 - 10 juillet 2009
- 74. "Fragmentation of multiply-charged small hydrocarbon molecules C_nH^{q+} ($n=1-3$, $q=2-6$) produced in high velocity collisions: Branching ratios and associated kinetic energy releases of the H^+ fragment"**
 K. Béroff, M. Chabot, T. Pino, N.G. Van - Oanh, T. Tuna, A. Le Padellec, P. Désesquelles and G. Martinet
 "PAMO 2010 – JSM 2010", Orsay, France, 29 juin - 2 Juillet 2010
 "ECAMP X – the tenth european conference on atoms molecules and photons", Salamanque, Espagne, 4 - 9 Juillet 2010

- 75. "Production de paires +/- par excitation électronique dans les chaines carbonées"**
M. Chabot, K. Béroff, T. Pino, G. Féraud, N. Dothi, A. Le Padellec, G. Martinet, S. Bouneau et Y. Carpentier
"PCMI 2010 – colloque national", Arles, France, 18 - 21 Octobre 2010
- 76. "Fragmentation of multiply-charged small hydrocarbon molecules in C_nH^{q+} ($n=1-3$, $q=2-6$) produced in high velocity collisions: Branching Ratios and associated Kinetic Energy Releases of the H^+ fragment"**
K. Béroff, V.-O. Nguyen-Thi, M. Chabot, T. Pino, T. Tuna, G. Martinet, A. Le Padellec and N. Dothi, Journal of Physics Conference Series, 388, 102062, (2012)
"ICPEAC 2011 - XXVII International Conference on Photonic, Electronic and Atomic Collisions", Belfast, Irlande du Nord, 27 Juillet – 2 Août 2011
- 77. "Negative ion productions in high velocity collision between small carbon clusters and Helium atom target"**
M. Chabot, K. Béroff, T. Pino, G. Féraud, N. Dothi, A. Le Padellec, G. Martinet, S. Bouneau, and Y. Carpentier, Journal of Physics Conference Series, 388, 102036, (2012)
"ICPEAC 2011 - XXVII International Conference on Photonic, Electronic and Atomic Collisions", Belfast, Irlande du Nord, 27 Juillet – 2 Août 2011
- 78. "Ultrafast non-adiabatic fragmentation dynamics of doubly charged uracil in gas and liquid phase"**
P. López-Tarifa, M.-A. Hervé du Penhoat, R. Vuilleumier, M.-P. Gaigeot, I. Tavernelli, A. Le Padellec, J.-P. Champeaux, M. Alcamí, P. Moretto-Capelle, F. Martín and M.-F. Politis, Journal of Physics Conference Series, 388, 102055, (2012)
"ICPEAC 2011 - XXVII International Conference on Photonic, Electronic and Atomic Collisions", Belfast, Irlande du Nord, 27 Juillet – 2 Août 2011
- 79. "Ion-pair dissociation of highly excited carbon clusters, size and charge effects"**
T. Launoy, M. Chabot, G. Martinet, T. Pino, A. Le Padellec, S. Bouneau, G. Féraud, N. Do Thi, N. Vaeck, J. Liévin, J. Loreau, K. Béroff, Journal of Physics Conference Series, 635, 032085, (2015)
"Molecular Physics Workshop", Caen, France, 7 – 10 Juillet 2015
"ICPEAC 2015 - XXIX International Conference on Photonic, Electronic and Atomic Collisions", Toledo, Espagne, 22 – 28 Juillet 2015
- 80. "Excitation and fragmentation in high velocity C_nN^+ - He collisions"**
T. Mahajan, T. Id Barkach, N.F. Aguirre, M. Alcamí, M. Bonnin, M. Chabot, N. De Sereville, S. Diaz-Tendero, F. Geslin, T. Hamelin, F. Hammache, C. Illescas, A. Jallat, A. Jorge, T. Launoy, T.K.C. Le, A. Le Padellec, F. Martin, A. Meyer, L. Perrot, T. Pino, B. Pons and K. Béroff, Journal of Physics Conference Series, , 875, 102022, (2017)
"ICPEAC 2017 - XXX International Conference on Photonic, Electronic and Atomic Collisions", Cairns, Australie, 26 Juillet – 1 Août 2017