

Peer-reviewed Articles and Proceedings

1. Y.A. Ba, C. Boursier, O. Denis-Alpizar, C. Vastel, N. Moreau, C.M. Zwölf, M.L. Dubernet, "SPECTCOL: A VAMDC tool for molecular spectroscopy and collisional data", **A&A**, **2025**, vol. 703, A132, DOI : <https://doi.org/10.1051/0004-6361/202556083>
2. M.L. Dubernet et al, "BASECOL2023 scientific content", **A&A**, **2024**, vol. 683, A40, DOI : <https://doi.org/10.1051/0004-6361/202348233>
3. C. Joy, B. Mandal, D. Bostan, M.L. Dubernet, D. Babikov, "Mixed Quantum/Classical Theory (MQCT) Approach to the Dynamics of Molecule-Molecule Collisions in Complex Systems", **Faraday discussions**, **2024**, DOI : 10.1039/d3fd00166k
4. M.L. Dubernet et al, **2024**, "Atomic and Molecular Databases- Open Science for a sustainable world", **IAU book of Proceedings for Symposium 371**, "Honoring Charlotte Moore Sitterly: Astronomical spectroscopy in the 21st century", Published online by Cambridge University Press: 2024, DOI : 10.1017/S1743921323000261
5. M.L. Dubernet, G.B. Berriman, C. Boersma, C. Jäger, M. Rengel, W. R. M. Rocha, F. Salama, C.M. Zwölf, **2024**, "Laboratory Astrophysics Data Working Group IAU 2022 GA session", **IAU book of Proceedings for Symposium 371**, "Honoring Charlotte Moore Sitterly: Astronomical spectroscopy in the 21st century", Published online by Cambridge University Press: 2024, DOI : 10.1017/S1743921323000327
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9. C. Boursier, B. Mandal, D. Babikov, M.L. Dubernet (MLD: corresponding author), "New H₂O-H₂O collisional rate coefficients for cometary applications", **MNRAS**, **2020**, 498, 5489-5497; <https://doi.org/10.1093/mnras/staa2713>
10. A. Damien, B.K. Antony, Y.A. Ba, et al. (MLD : corresponding author), "A decade with VAMDC : Results and Ambitions", **Atoms**, **2020**, vol. 8, number 4, article 76 ; DOI = 10.3390/atoms8040076
11. Y.A. Ba, M.L. Dubernet, N. Moreau, C.M. Zwölf (MLD: corresponding author), "BASECOL2020 (basecol.vamdc.org) New Technical Design", **Atoms**, **2020**, vol. 8, number 4, article 69 ; DOI = 10.3390/atoms8040069
12. C.M. Zwölf, N. Moreau, Y.A. Ba, M.L. Dubernet, (2020) "Citation of evolving data in distributed asynchronous infrastructures", **IAU book of Proceedings for Symposium 350**, Laboratory Astrophysics: From Observations to Interpretation, April 2019, pp. 392 - 393, Published online by Cambridge University Press: 12 October 2020, DOI: 10.1017/S174392131900783X
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15. N. Moreau, C.M. Zwölf, Y.A. Ba, C. Richard, V. Boudon, M.L. Dubernet (MLD: corresponding author), "The VAMDC Portal as a major enabler of atomic and molecular data citation", **Galaxies**, **2018**, 6(4), 105; <https://doi.org/10.3390/galaxies6040105>
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100. P. Le Sidaner, M.L. Dubernet et al, "Latest VO development at VO-Paris Data Centre", SF2A-2007: Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics held in Grenoble, France, July 2-6, 2007, Eds.: J. Bouvier, A. Chalabaev, and C. Charbonnel, **2007**, p.71
101. M.L. Dubernet, N. Moreau, P. Osuna, M. Guanazzi, J. Salgado, E. Roueff, I. Barbarisi, SF2A-**2006**: Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics Eds.: D. Barret, F. Casoli, G. Lagache, A. Lecavelier, L. Pagani, p.87. "Definition and Implementation of VO standards for the Access of Atomic and Molecular Linelists".
102. N. Moreau, M.L. Dubernet, SF2A-**2006**: Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics Eds.: D. Barret, F. Casoli, G. Lagache, A. Lecavelier, L. Pagani, p.95. "Automatic access to BASECOL database and scientific applications"
103. Le Sidaner, P. and Dubernet, M.-L. et al, SF2A-**2006**: Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics Eds.: D. Barret, F. Casoli, G. Lagache, A. Lecavelier, L. Pagani, p.93. "Latest VO developments at Paris VO Data Center"
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106. N. Moreau and M.L. Dubernet, Astronomical Data Analysis Software and Systems XV ASP Conference Series, Vol. 351, Proceedings of the Conference Held 2-5 October 2005 in San Lorenzo de El Escorial, Spain. Edited by Carlos Gabriel, Christophe Arviset, Daniel Ponz, and Enrique Solano. San Francisco: Astronomical Society of the Pacific, **2006**, p.391 - "VO access to BASECOL database"
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108. F. Daniel, J. Cernicharo, M. L. Dubernet, Semaine de l'Astrophysique Française, meeting held in Strasbourg, France, June 27-July 1, **2005**, p 393, Eds.: F. Casoli, T. Contini, J.M. Hameury and L. Pagani. EdP-Sciences, Conference Series, "Excitation of N_2H^+ in dark clouds".
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110. H. Abgrall, M. Bruston, M. Cornille, J. Crovisier, J. Dubau, M.-L. Dubernet-Tuckey, M. Eidelsberg, N. Feautrier, A. Lesage, F. Launay, E. Roueff, F. Rostas, S. Sahal, A. Spielfiedel, C. Stehle, W.-Ü. L. Tchang-Brillet, proceedings SF2A-2004: Semaine de l'Astrophysique Française, meeting held in Paris, France, June 14-18, **2004**. Eds.: F. Combes, D. Barret, T. Contini and F. Meynardier. EdP-Sciences, Conference Series, p. 325. "MOLAT : Atomic and Molecular Physics Databases of the Paris Observatory".
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112. F. Lique, A. Spielfiedel, M. L. Dubernet, N. Feautrier, Semaine de l'Astrophysique Française, meeting held in Paris, France, June 14-18, **2004**. Eds.: F. Combes, D. Barret, T. Contini and F. Meynardier. EdP-Sciences, Conference Series, p. 135. "Rotational excitation of SO by He at low temperature".

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115. M.L. Dubernet, B. Debray, A. Grosjean, M. Bruston, F. Combes, M. Cornille, D. Egret, C. Stéhlé, L. Tchang-Brillet, C. Zeppen, Proceedings ADASS XIII, **2003**, Strasbourg, "Access to Atomic and Molecular Data/Databases in the VO"
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INVITED CONFERENCES, ORAL CONTRIBUTION TO WORKSHOPS, SEMINARS

• Invited Conferences

1. **September 2022 : SPIG2022, Belgrade, Serbia**, <http://spig2022.ipb.ac.rs/invited.html>, "Towards a Global Network for Laboratory Astrophysics Activities and Data", M.L. Dubernet
2. **August 2022 : IAU General Assembly, Symposium 371, Busan, Korea**, <https://pml.nist.gov/iau-symposium371> Keynote Lecture : "Databases of atomic and molecular data", M.L. Dubernet
3. **December 2021: Joint ICTP-IAEA Workshop on Atomic Processes in Plasmas: Data-driven Research, on-line**, "VAMDC Applications", M.L. Dubernet and VAMDC Collaboration
4. **Aout 2020 : SPIG2020, Belgrade, Serbia, on-line**"VAMDC : Results and Perspective", M.L. Dubernet and VAMDC Collaboration
5. **November 2019 : MolSSI Workshop, Blackburg, USA**"XSAMS and Standardization in VAMDC", M.L. Dubernet, N. Moreau, C.M. Zwolf, Y.A. Ba, and VAMDC Consortium

6. **November 2018 : ICAMDATA, Boston, USA** “VAMDC and Data Citation”, M.L. Dubernet, C.M. Zwolf, N. Moreau, Y.A. Ba, and VAMDC Consortium
7. **August 2018 : IAU, Vienna, Austria - Commission B5** “VAMDC - A resource for Atomic and Molecular Data”, M.L. Dubernet, N. Moreau, C.M. Zwolf, Y.A. Ba, and VAMDC Consortium
8. **July 2018 : Data-Driven Plasma Science Conference, 2018, York, UK** “VAMDC, bridging the gap between producers, users and editors”, M.L. Dubernet, N. Moreau, C.M. Zwolf, Y.A. Ba, and VAMDC Consortium
9. **July 2018 : SF2A, session plénière pour ASOV, Bordeaux, France** “VAMDC, bridging the gap between producers, users and editors”, M.L. Dubernet, N. Moreau, C.M. Zwolf, Y.A. Ba, and VAMDC Consortium
10. **April 2018 : NASA Laboratory Astrophysics 2018, Athens, Georgia, USA** “Virtual Atomic and Molecular Data Centre : current status and prospects”, M.L. Dubernet, N. Moreau, C.M. Zwolf, Y.A. Ba, C. Richard, V. Boudon and VAMDC Consortium
11. **April 2018 : EWASS2018, Liverpool, UK** “Virtual Atomic and Molecular Data Centre : current status and prospects”, M.L. Dubernet, N. Moreau, C.M. Zwolf, Y.A. Ba, C. Richard, V. Boudon and VAMDC Consortium
12. **November 2017 : ESEP Workshop, Meudon, France** “The Virtual Atomic and Molecular Data Centre”, C.M. Zwolf, N. Moreau, ML Dubernet and VAMDC Consortium
13. **July 2016 : ASOS12, Sao Paulo, Brazil** “Atomic and Molecular Databases, VAMDC (Virtual Atomic and Molecular Data Centre) ”, ML Dubernet and VAMDC Collaboration
14. **January 2016 : q-PaCE 2016, Dhanbad, India** “Achievements and Future of the Virtual Atomic and Molecular Data Centre (VAMDC) ”, ML Dubernet, C.M. Zwolf, N. Moreau, Y.A. Ba
15. **August 2015: IAU General Assembly, Hawai 2015** “Atomic and Molecular Databases, VAMDC (Virtual Atomic and Molecular Data Centre) ”, ML Dubernet and VAMDC Collaboration
16. **June 2014: GEISA Workshop, Paris, France** “Introduction to the Virtual Atomic and Molecular Data Centre (VAMDC)”, ML Dubernet and VAMDC Collaboration
17. **May 2014: IST-Africa Workshop, Ile Maurice** “Experience and Feedbacks from the sustainability for the Virtual Atomic and Molecular Data Centre E-Infrastructure”, C.M. Zwolf, ML Dubernet, Y.A. Ba, N. Moreau and VAMDC Collaboration
18. **July 2013: SFP - Mini-Colloque: Low energy astrophysics, Marseille 2013** “Virtual Atomic and Molecular Data Centre”, M.L. Dubernet
19. **Sept. 2012: IAU General Assembly, Beijing 2012** “Virtual Atomic and Molecular Data Center: Level 3 service and Future Prospects”, M.L. Dubernet and VAMDC Consortium.
20. **April 2011: Workshop Astrochemistry: Molecular Networks connecting the Universe, Amsterdam** “VAMDC: A Virtual and Atomic Data Centre”, M.L. Dubernet.
21. **Sept. 2010 : ICAMDATA 2010, Vilnius, Lithuanie - Review Lecture**, “VAMDC: A Virtual and Atomic Data Center : A new way to disseminate A. & M. Data ”, M.L. Dubernet.
22. **Sept. 2010 : The 5th Zermatt ISM-Symposium : Conditions and Impact of Star Formation “New results with Herschel and beyond”, Zermatt, Switzerland**, “Collision Rate Coefficients”, M.L. Dubernet, E. Roueff, F. Daniel, T. Stoecklin, A. Grosjean
23. **Sept 2009: CCLAR2009-Venezuela** “Virtual and Atomic Data Center”, M.L. Dubernet
24. **July 2009: XVIth symposium on High Resolution Molecular Spectroscopy. 5-10 july, Lake Baikal, Russia** “VAMDC: A Virtual and Atomic Data Center”, M.L. Dubernet
25. **Octobre 2008: ICAMDATA, Beijing, Chine**. “Development of new standards for exchange of atomic and molecular data”. Y. Ralchenko, R.E.H. Clarck, M.L. Dubernet et al. (présentée par Y. Ralchenko).
26. **Aout 08: Atmospheric Spectroscopy Applications, Reims, France** “Micro-Physics Databases, Tools and Virtual Observatory”, M.L. Dubernet
27. **Juin 08: Astronet Symposium, Liverpool, UK** “Micro-Physics Databases, Tools and Virtual Observatory”, Panel D, M.L. Dubernet
28. **Juin 08: Astronet Symposium, Liverpool, UK** “Micro-Physics Databases, Tools and Virtual Observatory for application to the Interstellar Medium”, Panel C, M.L. Dubernet
29. **Mai 08: The Molecular Universe: An international meeting on the Physics and Chemistry of the Interstellar Medium, Arcachon** “Micro-Physics Databases, Tools and Virtual Observatory for application to the Interstellar Medium”, M.L. Dubernet.
30. **Decembre 06: Scientific Preparation of HERSCHEL, Leiden**. “Ro-vibrational Databases”, M.L. Dubernet
31. **Octobre 06: ICAMDATA, Meudon, France**. “The Virtual Observatory: its goals and the relevance of atomic and molecular data”, M.L. Dubernet
32. **Juin 06: SF2A 2006, Grenoble, France**. “Molecular Universe Network : An interdisciplinary programme of the physics and chemistry of molecules in space”, M.L. Dubernet

33. **Juin 06: 9th Biennial HITRAN Database Conference, Boston.** “BASECOL database and implementation of VO standards for the exchange of atomic and molecular data”, *M.L. Dubernet*, N. Moreau, P. Osuna, M. Guanazzi, J. Salgado, E. Roueff
34. **Mai 06: Complex Molecules in Space: Present status and prospects with ALMA, Aarhus, Danemark.** “Tools for ALMA: data, databases, analysis software and the Virtual Observatory”, *M.L. Dubernet*, A. Walters
35. **Aout 05: IAU 231, Astrochemistry - Recent Successes and Current Challenges, Asilomar, USA.** “Collisional excitation rates in the ISM”, *M.L. Dubernet*
36. **Juin 05: SF2A-2005, Strasbourg.** “VO-France”, *M.L. Dubernet on behalf of the "Conseil Scientifique de VO-France"*
37. **Juin 05: SF2A-2005, Strasbourg.** “Rotational excitation of sulfur monoxide by collisions with helium at low temperature”, given by F. Lique, with authors: F. Lique, A. Spielfiedel, *M. L. Dubernet*, N. Feautrier, J. Cernicharo.
38. **Dec. 2004: Scientific Preparation of HERSCHEL, Leiden.** “Inelastic collisions”, *M.L. Dubernet*, F. Daniel, F. Lique, A. Spielfiedel, N. Feautrier
39. **June 2004: 8th Biennial HITRAN Database Conference, Boston.** “Access to databases of Atomic and Molecular Data in the Virtual Observatory”, *M.L. Dubernet-Tuckey*
40. **June 2004: SF2A-2004, Paris.** “Atomic and Molecular Databases and their integration in Virtual Observatories”, *M.-L. Dubernet*
41. **Mars 2004: Workshop pour la préparation scientifique de HERSCHEL, Leiden.** “Collisional Excitation Processes of water”. *M.L. Dubernet*, A. Grosjean, F. Daniel
42. **Dec. 2003 : 1er Congreso Nacional de Astrofísica Molecular, Ciudad Real, España.** “Molecule H₂/He potential energy surfaces and collisional cross sections”, N. Feautrier, A. Spielfiedel, *M.L. Dubernet*.
43. **Sept. 2003: 4th Cologne-Bonn-Zermatt-Symposium, The Dense Interstellar Medium in Galaxies.** “Collisional excitation processes relevant to ISM studies”, E. Roueff, *M.L. Dubernet*, D.R. Flower, J.T. Pottage.
44. **Juin 2003: SF2A, Bordeaux.** “Atomic and Molecular Databases for Astrophysics”. *M.L. Dubernet*
45. **Juillet 2002: PN PCMI, Bordeaux.** “Excitation collisionnelle ro-vibrationnelle : méthodes, résultats et applications pour H₂O-H₂.” *M.L. Dubernet*, A. Grosjean, C. Ceccarelli and A. Faure
46. **Octobre 2001: Workshop pour la préparation scientifique de HERSCHEL, Leiden.** “Rotational excitation of H₂O”. *M.L. Dubernet*
47. **Juil. 96: XII International Symposium and School on High Resolution Molecular Spectroscopy, St. Petersburg.** “Specific collision-induced effects in vibrational spectroscopy of gaseous H₂ and consequences in the diagnostic of combustion media”. *P. Joubert*, *M.L. Dubernet*, J. Bonamy and D. Robert
48. **Juil. 94: Colloque Journées de Spectroscopie Moléculaire.** “Complexes de Van der Waals atome-molécule où l’atome est à couche ouverte. Surfaces d’énergie potentielle, Spectre de Cl-HCl”. *M.L. Dubernet et J.M. Hutson*

• **Oral Contribution to Conferences and Workshops**

1. **25-29 Sept 2022 : 12th ICAMDATA, Bari, Italy,** “FAIR principles in VAMDC”, CM Zwolf, *M.-L. Dubernet*
2. **8 August 2022 : IAU GA, Division B day, Busan, Korea,** https://www.iauga2022.org/program/program_05_2.as “Organisation of the working group session, *M.-L. Dubernet*
3. **26 April 2022 : IVOA Interop Workshop, Canada, on-line,** <https://wiki.ivoa.net/wiki/bin/view/IVOA/InterOp> “FAIR usage of Laboratory Astrophysics Data in Astro applications IAU B2-B5 WG and Role of IVOA”, *M.-L. Dubernet*
4. **11 April 2022 : ASOV Workshop, Paris, France,** <https://asov.obspm.fr/journeesasov/>, “Atomic and Molecular Data in Astrophysics, IAU and VAMDC”, *M.-L. Dubernet*
5. **28th September 2021 : ECLA 2021 Conference, Capri, Italy, on-line.** Short presentation on “Feedback on a structured European project: VAMDC” for the purpose of Laboratory Astrophysics Organisation in Europe, *M.-L. Dubernet*
6. **June 2018 : PCMI Meeting, Marseille** “VAMDC and BASECOL”, *M.-L. Dubernet*, N. Moreau, C. M. Zwolf, Y.A. Ba
7. **November 2016 : ECLA, Madrid, Spain** “VAMDC evolution towards bridging laboratory astrophysics and astrophysics”, C. M. Zwolf, N. Moreau, *M.-L. Dubernet*
8. **Juin 15: SF2A 2015, Toulouse, France.** “Virtual Atomic and Molecular Data Centre”, *M.L. Dubernet*, N. Moreau, Y.A. Ba, C.M. Zwolf, and VAMDC Consortium
9. **March 2015: Workshop on Databases, University of Grenoble, France.** “VAMDC ”, *M.L. Dubernet* and VAMDC Consortium

10. **October 2014: PCMI Colloquium, Rennes, France**“The Virtual Atomic and Molecular Data Centre (VAMDC): Science Use Cases and the VAMDC Consortium”, ML Dubernet, Y.A. Ba, N. Moreau, C.M. Zwolf and VAMDC Collaboration.
11. **January 2014, Action Specificque VO-France, Paris**“VAMDC Breaking News”, C.M. Zwolf, N. Moreau, Y.A. Ba, M.L. Dubernet
12. **Oct. 2012, ICAMDATA, NIST, USA: Panel Session and VAMDC-USA day**“Introduction to VAMDC”, M.L. Dubernet
13. **June 2012, ASTR-GAIA Meeting, Heidelberg, Germany**“New advances in Atomic and Molecular Data Infrastructure”, M.L. Dubernet
14. **January 2012, Action Specificque VO-France, Paris**“VAMDC: Virtual Atomic and Molecular Data Center”, M.L. Dubernet
15. **Nov. 2011, ASA Workshop, Grenoble**“VAMDC: Virtual Atomic and Molecular Data Center”, M.L. Dubernet
16. **Oct. 2011, Interop IVOA Pune, India**“VAMDC and Data Access”, N. Walton, G. Rixon, M.L. Dubernet
17. **Oct. 2011, Interop IVOA Pune, India**“VAMDC and Level 2 Service Implementation”, N. Walton, G. Rixon, M.L. Dubernet
18. **Juin 2011: SF2A, Session PCMI, Paris**“Structure Européenne et Nationale en Physique Atomique et Moléculaire”. M.L. Dubernet
19. **Mai 2009, Interop IVOA Strasbourg** “ VAMDC and news about XSAMS”, M.L. Dubernet
20. **Avril 2009, Workshop ALMA organisé par Action Spécifique ALMA, Grenoble** “Databases”. M.L. Dubernet, S. Marinakis, V. Wakelam, A. Walters.
21. **Mai 2008, Interop IVOA Trieste** “ Atomic and Molecular Line Data Model: new propositions”, M.L. Dubernet
22. **Juillet 2007, MAPSO OT-KP “Mapping SGR B2 & ORION”, a Herschel Open Time Key Program team meeting 3, CSIC, Madrid, Spain.** “Comparison of ortho-water by H₂ using quantum calculations: comparison with previous calculations and QCT calculations”, F. Daniel, M.L. Dubernet (présenté par F. Daniel).
23. **Juillet 2007,MAPSO OT-KP “Mapping SGR B2 & ORION”, a Herschel Open Time Key Program team meeting 3, CSIC, Madrid, Spain.** “News from Basecol”, M.L. Dubernet, F. Daniel (présenté par F. Daniel).
24. **Mai 2007, EGEE meeting, Budapest,** “ French participation to the Astronomy and Astrophysics Cluster”, M.L. Dubernet
25. **3-4 Mai 2007, Workshop on ”A+M/PSI Data Exchange”, NIST, Gaithersburg, USA.** “Virtual Observatory and Relevance to Atomic and Molecular Data”, M.L. Dubernet
26. **Mai 2007: FP6 “Molecular Universe” Annual network and Review Meeting.** “Excitation of H₂O by H₂, He: Quantum Calculations”, M.L. Dubernet
27. **Mars 2007, Euro-VO Workshop, ESAC/Villafranca, Spain.** “Electronic molecular transitions”, E. Roueff , M.L. Dubernet, W.-U.L. Tchang-Brillet (présenté par E. Roueff)
28. **Mars 2007, Euro-VO Workshop, ESAC/Villafranca, Spain.** “VO access to CDMS spectroscopic database”, N.Moreau, M.L. Dubernet, H. Müller (présenté par N. Moreau)
29. **Juillet 2006: MAPSO OT-KP “Mapping SGR B2 & ORION”, a Herschel Open Time Key Program team meeting 2, CSIC, Madrid, Spain.** “Basecol Database (<http://basecol.obspm.fr/>)”, M.L. Dubernet
30. **Avril 2006: Workshop on Numerical Simulation in the VO, Paris.** “BASECOL database”, M.L. Dubernet
31. **Avril 2006: Workshop “Masse de Données en Astrophysique”, “Structuration Données Atomiques and Moléculaires”,** M.L. Dubernet
32. **December 2005: FP6 “Molecular Universe” Annual network meeting,** “Progresses with the BASECOL database”, M.L. Dubernet
33. **December 2005: FP6 “Molecular Universe” Annual network meeting,** “Excitation of N₂H⁺ by He: molecular calculations and astrophysical modelling”, F. Daniel, M.L. Dubernet, J. Cernicharo
34. **October 2005: Interoperability Meeting of the IVOA, Madrid.** “ Atomic and Molecular Line Data Model”, given by M. Guainazzi, on behalf of the working group: M.L. Dubernet, P. Osuna, M. Guainazzi, E. Roueff, J. Salgado.
35. **May 2005: Interoperability Meeting of the IVOA, Kyoto, Japan.** “ Atomic and Molecular Line Data Model”, M.L. Dubernet, P. Osuna
36. **Sep. 2004: Interoperability Meeting of the IVOA, Pune, India.** “ Access of Atomic and Molecular Physics in the VO”, M.L. Dubernet-Tuckey
37. **Apr. 2004: Atelier Transfert Radiatif V/IR/mm et Application au VLTI et ALMA, Meudon.** “Bases de données en physique atomique et moléculaire pour IR et mm”, M.L. Dubernet-Tuckey

38. **Dec. 2003 : Forum sur la simulation numérique en astrophysique.** “Collisional excitation processes”, M.L. Dubernet (présenté par P. Valiron car MLD absente)
39. **Nov. 2003 : Forum Bases, traitements de données et Observatoires Virtuels**, Meudon. “Bases de Physique atomique et moléculaires”. M.L. Dubernet.
40. **Mai 2003 : Atelier sur les bases de données de physique atomique et moléculaire**, Meudon. “BASECOL : processus d’excitation ro-vibrationnelle”. M.L. Dubernet.
41. **Mai 2001: Réunion GDR PCMI**, Paris. “Taux d’excitation ro-vibrationnelle”. M.L. Dubernet.
42. **Mars 98: European CARS Workshop**, Besançon. “Pure rotational stimulated Raman spectroscopy of H₂-X mixtures (X≡ He, Ar, N₂, H₂O)”. Co-auteur : *H. Berger, X. Michaut, R. Saint-Loup, M.L. Dubernet, P. Joubert, J. Bonamy and D. Robert* (donné par H. Berger)
43. **Mars 97: European CARS Workshop**, Heidelberg (Germany). “Quantum calculation and measurement of width and shift for pure rotational lines in H₂-He mixtures at high temperature.” M.L. Dubernet, P. Joubert, J. Bonamy and D. Robert
44. **Avril 94: Faraday Discussion 97**, Durham (UK). “Ar-OH potential energy surfaces”. M.L. Dubernet and J.M. Hutson
45. **Janv. 94: European Conference on Unstable Species**, Les Houches (France). “Atom-Molecule Van der Waals complexes containing open-shell molecules ” co-auteur : *J.M. Hutson and M.L. Dubernet*, donné par J.M. Hutson.

• Seminars

1. **October 2024, Seoul National University (SNU), Seoul, South Korea.** “A journey through space and time”, M.L. Dubernet
2. **Septembre 2024, KASI, Daejeon, South Korea.** “History of Astronomical Sciences at Paris Observatory”, M.L. Dubernet
3. **27 June 2023, IRAP, Univ. Paul Sabatier, Toulouse.** “VAMDC: Current services and suggestions for the future”, M.L. Dubernet, Yaye Awa Ba, N. Moreau, C.M. Zwölf
4. **22 Septembre 2022, IUPAC en ligne.** “Webinar : Chemistry in Astrophysics”, M.L. Dubernet, Yaye Awa Ba, N. Moreau, C.M. Zwölf
5. **26 Juillet 2022, KISTI, Corée du Sud.** “Second French Plan for Open Science”, M.L. Dubernet
6. **26 Juillet 2022, KISTI, Corée du Sud.** “VAMDC e-infrastructure, Open Science for atomic and molecular data”, M.L. Dubernet
7. **20 Juillet 2022, KFE, Corée du Sud.** “Open Science Initiatives, VAMDC, FAIR Issues : General Overview ”, M.L. Dubernet
8. **13 Juillet 2022, IUPAC en ligne.** “VAMDC e-infrastructure, Open science for atomic and molecular data and further prospects ”, M.L. Dubernet, Yaye Awa Ba, N. Moreau, C.M. Zwölf
9. **15 April 2022: University of Rennes, France.** “Laboratory Astrophysics Data at IAU B5 commission WG : Encouraging FAIRness”, M.L. Dubernet
10. **13 Juillet 2022: IUPAC - remote.** “Laboratory Astrophysics Data at IAU B5 commission WG : Encouraging FAIRness”, M.L. Dubernet
11. **15 April 2022: University of Rennes, France.** “Laboratory Astrophysics Data at IAU B5 commission WG : Encouraging FAIRness”, M.L. Dubernet
12. **14 April 2022: University of Rennes, France.** “BASECOL in VAMDC”, M.L. Dubernet, Yaye Awa Ba, N. Moreau, C.M. Zwölf
13. **January 2022: KASI, Daejeon, Korea.** “Atomic and Molecular Data in Astrophysics”, M.L. Dubernet
14. **July 2013: University of Flinders, Australia.** “VAMDC and SUP@VAMDC”, M.L. Dubernet
15. **Mars 2010: NIFS Headquarters, Toki, Japan.** “ VAMDC and XML Schema for Atomic and Molecular Data: Molecular Data”, M.L. Dubernet
16. **Aout 2008: IAEA Headquarters, Vienne, Austria.** “XML Schema for Atomic and Molecular Data: Molecular Data”, M.L. Dubernet
17. **15-16 Mai 2008: IAEA Headquarters, Vienne, Austria.** “XML Schema for Atomic and Molecular Data: Molecular Data”, M.L. Dubernet
18. **22 April 08: Institut UTINAM, Observatoire de Besançon,** “Les standards de Physique Atomique et Moléculaire et l’OV”. M.L. Dubernet
19. **4 April 08: CCT Prénisation et mise à disposition des Informations Numériques, CNES, Toulouse.** “Les standards de Physique Atomique et Moléculaire et l’OV”. M.L. Dubernet
20. **Feb. 2008: Institut Carnot de Bourgogne, Dijon,** “Make available laboratory Data, Evaluation of Data, Standards for Atomic and Molecular Data”, M.L. Dubernet
21. **1-2 October 2007: IAEA Headquarters, Vienne, Austria.** “XML Schema for Atomic and Molecular Data: Molecular Data”, M.L. Dubernet

22. **Mai 2007: Institute of Applied Physics and Computational Mathematics (IAPCM), Beijing, China.** “Virtual Observatory and Relevance to Atomic and Molecular Data”, M.L. Dubernet
23. **Mars 2007: MPI für Radioastronomie, Bonn, Germany.** “Virtual Observatory Paris Data Center”, M.L. Dubernet
24. **2-3 April 2007: IAEA Headquarters, Vienne, Austria.** “XML Schema for Atomic and Molecular Data: Molecular Data”, M.L. Dubernet
25. **11-13 October 2006: Observatoire de Paris.** “XML Schema for Atomic and Molecular Data: Molecular Data”, M.L. Dubernet
26. **23-24 March 2006: IAEA Headquarters, Vienne, Austria.** “XML Schema for Atomic and Molecular Data: Molecular Data”, M.L. Dubernet
27. **Printemps 2006: LPMAA, Université Paris 6, France.** “From Observations to Quantum Chemistry Collisional Excitation rate coefficients of Molecules by H₂, He”, M.L. Dubernet
28. **Mai 2003: Université de Bâle.** “Collisional Excitation Processes : From scientific preparation of astrophysical observations to van der Waals systems”. M.L. Dubernet
29. **Avril 94: Université de Toulouse, IRSAMC.** “Les molécules de Van der Waals ayant des atomes à couche ouverte”. M.L. Dubernet et J.M. Hutson
30. **Avril 94: Hebrew University, Jerusalem.** “Atom–Molecule Van der Waals complexes containing open-shell molecules”. M.L. Dubernet and J.M. Hutson
31. **1992: CECAM, Paris.** Workshop international sur la dynamique des complexes de van der Waals. “Influence des résonnances de Feshbach sur l’étape initiale de nucléation”. M.L. Dubernet et J.M. Hutson
32. **1990: Université de Durham, UK.** “Rotational state dependence of rate constants for the reaction of ions with asymmetric top molecules at very low temperature”