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Phone: +49-228-525376
French, born 1975, married, two children

Research

- since 2014* : Research staff, **Max-Planck Institute for Radio Astronomy**
(Bonn, Germany)
- 2003 – 2013* : Research assistant, **Max-Planck Institute for Radio Astronomy**
(Bonn, Germany)
- 2002 – 2003* : Research assistant, **Ecole Normale Supérieure** (Paris, France)

Education

- 1999 – 2002* : **Doctoral thesis** in Astrophysics, Commissariat à l’Energie Atomique Saclay and Paris-Sud University (France). Advisors: Drs Ph. André and D. Despois

Student supervision

- since Jan. 2024* : **Doctoral thesis** of Youxin Wang
(in collaboration with Prof. Dr. Karl Menten, MPIfR, Bonn)
- Mar. 2020 – Dec. 2023* : **Doctoral thesis** of Laura Busch (defended in December 2023)
(in collaboration with Prof. Dr. Karl Menten, MPIfR, Bonn)
- Oct. 2015 – Jun. 2019* : **Doctoral thesis** of Mélisse Bonfand (defended in June 2019)
(in collaboration with Prof. Dr. Karl Menten, MPIfR, Bonn)
- Jun. 2015 – Mar. 2019* : **Doctoral thesis** of Vivien Thiel (defended in March 2019)
(in collaboration with Prof. Dr. Karl Menten, MPIfR, Bonn)
- Jan. 2014 – Jan. 2015* : **Doctoral thesis** of Tien-Hao Hsieh (defended in Sept. 2015)
(in collaboration with Prof. Dr. Shih-Ping Lai, NTHU, Taiwan)
- Sep. 2010 – Mar. 2014* : **Doctoral thesis** of Anastasia Tsitali (defended in April 2014)
(in collaboration with Prof. Dr. Karl Menten, MPIfR, Bonn)
- Oct. 2014 – Oct. 2015* : **Master thesis** of Aida Ahmadi (defended in October 2015)
(in collaboration with Prof. Dr. Karl Menten, MPIfR, Bonn)
- since 2009* : several two-week **internships** of high-school students

Scientific duties

- MPIfR staff representative in the CPT Section of the Max Planck Society (since 2022)
- Member of APEX German proposal evaluation committee (since 2009)
- Member of ESO-ARO proposal evaluation committee (2015)
- Member of scientific committee of French national program PCMI (2014–2021)

Referee for A&A, ApJ, MNRAS, PASJ, Nat. Comm., Protostars & Planets
Referee for French (ANR, AGIR, DIM), German (Leopoldina), Dutch (NWO), Polish (NSC)
research grant applications
Coordinator of colloquia at MPIfR (2017–2022)

Reviews

1. Jørgensen, J. K., **Belloche, A.**, & Garrod, R. T. **2020**, ARA&A, 58, 727
“Astrochemistry During the Formation of Stars”
2. **Belloche, A.** **2013**, in “Angular momentum transport during star formation and evolution”, Eds. P. Hennebelle and C. Charbonnel, EAS Publications Series, 62, 25
“Observation of rotation in star forming regions: clouds, cores, disks, and jets”

Refereed articles

1. Harju, J., Pineda, J. E., Sipilä, O., Caselli, P., **Belloche, A.**, Wyrowski, F., Riedel, W., Redaelli, E., Vasyunin, A. I. **2024**, A&A, 682, A8
“Nuclear spin ratios of deuterated ammonia in prestellar cores. LAsMA observations of H-MM1 and Oph D”
2. Busch, L. A., **Belloche, A.**, Garrod, R. T., Müller, H. S. P., Menten, K. M. **2024**, A&A, 681, A104
“Shocking Sgr B2 (N1) with its own outflow. A new perspective on segregation between O- and N-bearing molecules”
3. Gong, Y., Du, F. J., Henkel, C., Jacob, A. M., **Belloche, A.**, Wang, J. Z., Menten, K. M., Yang, W., Quan, D. H., Bop, C. T., Ortiz-León, G. N., Tang, X. D., Rugel, M. R., Liu, S. **2023**, A&A, 679, A39
“Protonated hydrogen cyanide as a tracer of pristine molecular gas”
4. Gyawali, P., Motiyenko, R. A., **Belloche, A.**, Kleiner, I., Ilyushin, V. V., Alekseev, E. A., Gulaczyk, I., Kreglewski, M. **2023**, A&A, 677, A65
“Rotational spectrum and interstellar detection of the first torsionally excited state of methylamine”
5. Müller, H. S. P., Garrod, R. T., **Belloche, A.**, Rivilla, V. M., Menten, K. M., Jiménez-Serra, I., Martín-Pintado, J., Lewen, F., Schlemmer, S. **2023**, MNRAS, 523, 2887
“Rotation-tunnelling spectrum and astrochemical modelling of dimethylamine, CH₃NHCH₃, and searches for it in space”
6. Szabó, Z. M., Gong, Y., Yang, W., Menten, K. M., Bayandina, O. S., Cyganowski, C. J., Kóspál, Á., Ábrahám, P., **Belloche, A.**, Wyrowski, F. **2023**, A&A, 674, A202
“The Effelsberg survey of FU Orionis and EX Lupi objects. II. H₂O maser observations”

7. Szabó, Z. M., Gong, Y., Menten, K. M., Yang, W., Cyganowski, C. J., Kóspál, Á., Ábrahám, P., **Belloche, A.**, Wyrowski, F. **2023**, A&A, 672, A158
“The Effelsberg survey of FU Orionis and EX Lupi objects. I. Host environments of FUors and EXors traced by NH₃”
8. Zou, L., Guillemin, J.-C., **Belloche, A.**, Jørgensen, J. K., Margulès, L., Motiyenko, R. A., Groner, P. **2023**, MNRAS, 520, 4089
“Millimeter-wave spectrum of 2-propanimine”
9. Yan, Y. T., Henkel, C., Menten, K. M., Gong, Y., Nguyen, H., Ott, J., Ginsburg, A., Wilson, T. L., Brunthaler, A., **Belloche, A.**, Zhang, J. S., Budaiev, N., Jeff, D. **2022**, A&A, 666, L15
“Discovery of non-metastable ammonia masers in Sagittarius B2”
10. Koucký, J., Kolesníková, L., Luková, K., Vávra, K., Kania, P., Coutens, A., Loison, J.-C., Jørgensen, J. K., **Belloche, A.**, Urban, Š. **2022**, A&A, 666, A158
“Millimetre-wave spectroscopy of 2-hydroxyprop-2-enal and an astronomical search with ALMA”
11. Sanz-Novo, M., **Belloche, A.**, Rivilla, V. M., Garrod, R. T., Alonso, J. L., Redondo, P., Barrientos, C., Kolesníková, L., Valle, J. C., Rodríguez-Almeida, L., Jimenez-Serra, I., Martín-Pintado, J., Müller, H. S. P., Menten, K. M. **2022**, A&A, 666, A114
“Rotational spectroscopy and astronomical search for n- and i-butanal”
12. Vávra, K., Kolesníková, L., **Belloche, A.**, Garrod, R. T., Koucký, J., Uhlíková, T., Luková, K., Guillemin, J.-C., Kania, P., Müller, H. S. P., Menten, K. M., Urban, Š. **2022**, A&A, 666, A50
“Millimeter wave spectrum and search for vinyl isocyanate toward Sgr B2(N) with ALMA”
13. Busch, L. A., **Belloche, A.**, Garrod, R. T., Müller, H. S. P., Menten, K. M. **2022**, A&A, 665, A96
“Resolving desorption of complex organic molecules in a hot core. Transition from non-thermal to thermal desorption or two-step thermal desorption?”
14. Margulès, L., Remijan, A., **Belloche, A.**, Motiyenko, R. A., McGuire, B. A., Xue, C., Müller, H. S. P., Garrod, R. T., Menten, K. M., Guillemin, J.-C. **2022**, A&A, 663, A132
“Submillimeter wave spectroscopy and astronomical search for 1-propanimine”
15. Zingsheim, O., Maßen, J., Müller, H. S. P., Heyne, B., Fatima, M., Bonah, L., **Belloche, A.**, Lewen, F., Schlemmer, S. **2022**, A&A, 662, A111
“Rotational spectroscopy of n-propanol: Aa and Ag conformers”
16. **Belloche, A.**, Garrod, R. T., Zingsheim, O., Müller, H. S. P., Menten, K. M. **2022**, A&A, 662, A110
“Interstellar detection and chemical modeling of iso-propanol and its normal isomer”
17. Bouscasse, L., Csengeri, T., **Belloche, A.**, Wyrowski, F., Bontemps, S., Güsten, R., Menten, K. M. **2022**, A&A, 662, A32

“Sulphur-rich cold gas around the hot core precursor G328.2551-0.5321. An APEX unbiased spectral survey of the 2 mm, 1.2 mm, and 0.8 mm atmospheric windows”

18. Kolesníková, L., **Belloche, A.**, Koucký, J., Alonso, E. R., Garrod, R. T., Luková, K., Menten, K. M., Müller, H. S. P., Kania, P., Urban, Š **2022**, A&A, 659, A111
“Laboratory rotational spectroscopy of acrylamide and a search for acrylamide and propionamide toward Sgr B2(N) with ALMA”
19. Remijan, A., Xue, C., Margulès, L., **Belloche, A.**, Motiyenko, R. A., Carder, J., Codella, C., Balucani, N., Brogan, C. L., Ceccarelli, C., Hunter, T. R., Maris, A., Melandri, S., Siebert, M., McGuire, B. A. **2022**, A&A, 658, A85
“Expanding the submillimeter wave spectroscopy and astronomical search for thioacetamide (CH_3CSNH_2) in the ISM”
20. Kisiel, Z., Kolesníková, L., **Belloche, A.**, Guillemin, J.-C., Pszczółkowski, L., Alonso, E. R., Garrod, R. T., Białkowska-Jaworska, E., León, I., Müller, H. S. P., Menten, K. M., Alonso, J. L. **2022**, A&A, 657, A99
“Millimetre-wave laboratory study of glycineamide and a search for it with ALMA towards Sagittarius B2(N)”
21. Müller, H. S. P., **Belloche, A.**, Lewen, F., Drouin, B. J., Sung, K., Garrod, R. T., Menten, K. M. **2021**, Journal of Molecular Spectroscopy, 378, 111449
“Toward a global model of the interactions in low-lying states of methyl cyanide: Rotational and rovibrational spectroscopy of the $v_4 = 1$ state and tentative interstellar detection of the $v_4 = v_8 = 1$ state in Sgr B2(N)”
22. Podio, L., Tabone, B., Codella, C., Gueth, F., Maury, A., Cabrit, S., Lefloch, B., Maret, S., **Belloche, A.**, André, P., Anderl, S., Gaudel, M., Testi, L. **2021**, A&A, 648, A45
“The CALYPSO IRAM-PdBI survey of jets from Class 0 protostars. Exploring whether jets are ubiquitous in young stars”
23. Alonso, E. R., Kolesníková, L., **Belloche, A.**, Mata, S., Garrod, R. T., Jabri, A., León, I., Guillemin, J.-C., Müller, H. S. P., Menten, K. M., Alonso, J. L. **2021**, A&A, 647, A55
“Rotational spectroscopic study and astronomical search for propiolamide in Sgr B2(N)”
24. Gong, Y., **Belloche, A.**, Du, F. J., Menten, K. M., Henkel, C., Li, G. X., Wyrowski, F., Mao, R. Q. **2021**, A&A, 646, A170
“Physical and chemical structure of the Serpens filament: Fast formation and gravity-driven accretion”
25. Kamiński, T., Menten, K. M., Tyłenda, R., Wong, K. T., **Belloche, A.**, Mehner, A., Schmidt, M. R., Patel, N. A. **2020**, A&A, 644, A59
“Molecular remnant of Nova 1670 (CK Vulpeculae). I. Properties and enigmatic origin of the gas”
26. Anderl, S., Maret, S., Cabrit, S., Maury, A. J., **Belloche, A.**, André, Ph., Bacmann, A., Codella, C., Podio, L., Gueth, F. **2020**, A&A, 643, A123

“Probing episodic accretion with chemistry: CALYPSO observations of the very-low-luminosity Class 0 protostar IRAM 04191+1522. Results from the CALYPSO IRAM-PdBI survey”

27. Humire, P. K., Thiel, V., Henkel, C., **Belloche, A.**, Loison, J.-C., Pillai, T., Riquelme, D., Wakelam, V., Langer, N., Hernández-Gómez, A., Mauersberger, R., Menten, K. M. **2020**, A&A, 642, A222
“Sulphur and carbon isotopes towards Galactic centre clouds”
28. Motiyenko, R. A., **Belloche, A.**, Garrod, R. T., Margulès, L., Müller, H. S. P., Menten, K. M., Guillemin, J.-C. **2020**, A&A, 642, A29
“Millimeter- and submillimeter-wave spectroscopy of thioformamide and interstellar search toward Sgr B2(N)”
29. Melosso, M., **Belloche, A.**, Martin-Drumel, M.-A., Pirali, O., Tamassia, F., Bizzocchi, L., Garrod, R. T., Müller, H. S. P., Menten, K. M., Dore, L., Puzzarini, C. **2020**, A&A, 641, A160
“Far-infrared laboratory spectroscopy of aminoacetonitrile and first interstellar detection of its vibrationally excited transitions”
30. Sanz-Novo, M., **Belloche, A.**, Alonso, J. L., Kolesníková, L., Garrod, R. T., Mata, S., Müller, H. S. P., Menten, K. M., Gong, Y. **2020**, A&A, 639, A135
“Interstellar glycolamide: A comprehensive rotational study and an astronomical search in Sgr B2(N)”
31. Ilyushin, V. V., Zakharenko, O., Lewen, F., Schlemmer, S., Alekseev, E. A., Pogrebnyak, M., Lees, R. M., Xu, L.-H., **Belloche, A.**, Menten, K. M., Garrod, R. T., Müller, H. S. P. **2020**, Canadian Journal of Physics, 98, 530
“Rotational spectrum of isotopic methyl mercaptan, $^{13}\text{CH}_3\text{SH}$, in the laboratory and towards Sagittarius B2(N2)”
32. Margulès, L., Ilyushin, V. V., McGuire, B. A., **Belloche, A.**, Motiyenko, R. A., Remijan, A., Alekseev, E. A., Dorovskaya, O., Guillemin, J.-C. **2020**, Journal of Molecular Spectroscopy, 371, 111304
“Submillimeter-wave spectroscopy of and interstellar search for thioacetaldehyde”
33. Gaudel, M., Maury, A. J., **Belloche, A.**, Maret, S., André Ph., Hennebelle, P., Galametz, M., Testi, L., Cabrit, S., Palmeirim, P., Ladjelate, B., Codella, C., Podio, L. **2020**, A&A, 637, A92
“Angular momentum profiles of Class 0 protostellar envelopes”
34. Willis, E. R., Garrod, R. T., **Belloche, A.**, Müller, H. S. P., Barger, C. J., Bonfand, M., Menten, K. M. **2020**, A&A, 636, A29
“Exploring molecular complexity with ALMA (EMoCA): complex isocyanides in Sgr B2(N)”
35. **Belloche, A.**, Maury, A. J., Maret, S., Anderl, S., Bacmann, A., André, Ph., Bontemps, S., Cabrit, S., Codella, C., Gaudel, M., Gueth, F., Lefèvre, C., Lefloch, B., Podio, L., Testi, L. **2020**, A&A, 635, A198
“Questioning the spatial origin of complex organic molecules in young protostars with the CALYPSO survey”

36. Maret, S., Maury, A. J., **Belloche, A.**, Gaudel, M., André, Ph., Cabrit, S., Codella, C., Lefèvre, C., Podio, L., Anderl, S., Gueth, F., Hennebelle, P. **2020**, A&A, 635, A15
“Searching for kinematic evidence of Keplerian disks around Class 0 protostars with CALYPSO”
37. Busch, L. A., **Belloche, A.**, Cabrit, S., Hennebelle, P., Commerçon, B. **2020**, A&A, 633, A126
“The dynamically young outflow of the Class 0 protostar Cha-MMS1”
38. Csengeri, T., **Belloche, A.**, Bontemps, S., Wyrowski, F., Menten, K. M., Bouscasse, L. **2019**, A&A, 632, A57
“Search for high-mass protostars with ALMA revealed up to kilo-parsec scales (SPARKS). II. Complex organic molecules and heavy water in shocks around a young high-mass protostar”
39. Galametz, M., Maury, A. J., Valdivia, V., Testi, L., **Belloche, A.**, André, Ph. **2019**, A&A, 632, A5
“Low dust emissivities and radial variations in the envelopes of Class 0 protostars: possible signature of early grain growth”
40. Hsieh, T.-H., Murillo, N. M., **Belloche, A.**, Hirano, N., Walsh, C., van Dishoeck, E. F., Jørgensen, J. K., Lai, S.-P. **2019**, ApJ, 884, 149
“Chronology of Episodic Accretion in Protostars—An ALMA Survey of the CO and H₂O Snowlines”
41. Ordu, M. H., Zingsheim, O., **Belloche, A.**, Lewen, F., Garrod, R. T., Menten, K. M., Schlemmer, S., Müller, H. S. P. **2019**, A&A, 629, A72
“Laboratory rotational spectroscopy of isotopic acetone, CH₃¹³C(O)CH₃ and ¹³CH₃C(O)CH₃, and astronomical search in Sagittarius B₂(N₂)”
42. Giuliano, B. M., Bizzocchi, L., Pietropoli Charmet, A., Arenas, B. E., Steber, A. L., Schnell, M., Caselli, P., Harris, B. J., Pate, B. H., Guillemin, J.-C., **Belloche, A.** **2019**, A&A, 628, A53
“Rotational spectroscopy of imidazole: improved rest frequencies for astrophysical searches”
43. Bonfand, M., **Belloche, A.**, Garrod, R. T., Menten, K. M., Willis, E., Stéphan, G., Müller, H. S. P. **2019**, A&A, 628, A27
“The complex chemistry of hot cores in Sgr B₂(N): influence of cosmic-ray ionization and thermal history”
44. **Belloche, A.**, Garrod, R. T., Müller, H. S. P., Menten, K. M., Medvedev, I., Thomas, J., Kisiel, Z. **2019**, A&A, 628, A10
“Re-exploring Molecular Complexity with ALMA (ReMoCA): interstellar detection of urea”
45. Zakharenko, O., Lewen, F., Ilyushin, V. V., Müller, H. S. P., Schlemmer, S., Alekseev, E. A., Krapivin, I., Xu, L.-H., Lees, R. M., Garrod, R., **Belloche, A.**, Menten, K. M. **2019**, A&A, 627, A41
“Rotational spectroscopy of isotopic species of methyl mercaptan at millimeter and submillimeter wavelengths: CH₃S-3₄-H”

46. Martin-Drumel, M.-A., Lee, K. L. K., **Belloche, A.**, Zingsheim, O., Thorwirth, S., Müller, H. S. P., Lewen, F., Garrod, R. T., Menten, K. M., McCarthy, M. C., Schlemmer, S. **2019**, *A&A*, 623, A167
“Submillimeter spectroscopy and astronomical searches of vinyl mercaptan, C₂H₃SH”
47. Thiel, V., **Belloche, A.**, Menten, K. M., Giannetti, A., Wiesemeyer, H., Winkel, B., Gratier, P., Müller, H. S. P., Colombo, D., Garrod, R. T. **2019**, *A&A*, 623, A68
“Small-scale physical and chemical structure of diffuse and translucent molecular clouds along the line of sight to Sgr B2”
48. Vol’vach, L. N., Vol’vach, A. E., Larionov, M. G., MacLeod, G. C., van den Heever, S. P., Wolak, P., Olech, M., Ipatov, A. V., Ivanov, D. V., Mikhailov, A. G., Mel’nikov, A. E., Menten, K., **Belloche, A.**, Weiss, A., Mazumdar, P., Schuller, F. **2019**, *Astronomy Reports*, 63, 49
“A Giant Water Maser Flare in the Galactic Source IRAS 18316-0602”
49. Hsieh, T.-H., Hirano, N., **Belloche, A.**, Lee, C.-F., Aso, Y., Lai, S.-P. **2019**, *ApJ*, 871, 100
“ALMA Observations of the Protostellar Disk around the VeLLO IRAS 16253-2429”
50. Maury, A. J., André, P., Testi, L., Maret, S., **Belloche, A.**, et al. **2019**, *A&A*, 621, A76
“Characterizing young protostellar disks with the CALYPSO IRAM-PdBI survey: large Class 0 disks are rare”
51. Csengeri, T., Bontemps, S., Wyrowski, F., **Belloche, A.**, et al. **2018**, *A&A*, 617, A89
“Search for high-mass protostars with ALMA revealed up to kilo-parsec scales (SPARKS). I. Indication for a centrifugal barrier in the environment of a single high-mass envelope”
52. Richard, C., **Belloche, A.**, Margulès, L., Motiyenko, R. A., Menten, K. M., Garrod, R. T., Müller, H. S. P. **2018**, *Journal of Molecular Spectroscopy*, 345, 51
“Rotational spectrum of 3-aminopropionitrile and searches for it in Sagittarius B2(N)”
53. Hsieh, T.-H., Murillo, N. M., **Belloche, A.**, Hirano, N., Walsh, C., van Dishoeck, E. F., Lai, S.-P. **2018**, *ApJ*, 854, 15
“Probing Episodic Accretion in Very Low Luminosity Objects”
54. Bizzocchi, L., Tamassia, F., Laas, J., Giuliano, B., Degli Esposti, C., Dore, L., Melosso, M., Canè, E., Pietropoli Charmet, A., Müller, H. S. P., Spahn, H., **Belloche, A.**, Caselli, P., Menten, K. M., Garrod, R. T. **2017**, *ApJS*, 233, 11
“Rotational and High-resolution Infrared Spectrum of HC₃N: Global Ro-vibration Analysis and Improved Line Catalogue for Astrophysical Observations”
55. Kamiński, T., Menten, K. M., Tyłenda, R., Karakas, A., **Belloche, A.**, Patel, N. A. **2017**, *A&A*, 607, A78
“Organic molecules, ions, and rare isotopologues in the remnant of the stellar-merger candidate, CK Vulpeculae (Nova 1670)”

56. Thiel, V., **Belloche, A.**, Menten, K. M., Garrod, R. T., Müller, H. S. P. **2017**, A&A, 605, L6
“Complex organic molecules in diffuse clouds along the line of sight to Sgr B2”
57. Bonfand, M., **Belloche, A.**, Menten, K. M., Garrod, R. T., Müller, H. S. P. **2017**, A&A, 604, A60
“Exploring molecular complexity with ALMA (EMoCA): Detection of three new hot cores in Sagittarius B2(N)”
58. Lefèvre, C., Cabrit, S., Maury, A. J., Gueth, F., Tabone, B., Podio, L., **Belloche, A.**, Codella, C., Maret, S., Anderl, S., André, Ph., Hennebelle, P. **2017**, A&A, 604, L1
“CALYPSO view of SVS 13A with PdBI: Multiple jet sources”
59. **Belloche, A.**, Meshcheryakov, A. A., Garrod, R. T., Ilyushin, V. V., Alekseev, E. A., Motiyenko, R. A., Margulès, L., Müller, H. S. P., Menten, K. M. **2017**, A&A, 601, A49
“Rotational spectroscopy, tentative interstellar detection, and chemical modeling of N-methylformamide”
60. Garrod, R. T., **Belloche, A.**, Müller, H. S. P., Menten, K. M. **2017**, A&A, 601, A48
“Exploring molecular complexity with ALMA (EMoCA): Simulations of branched carbon-chain chemistry in Sgr B2(N)”
61. Hsieh, T.-H., Lai, S.-P., **Belloche, A.** **2017**, AJ, 153, 173
“Widening of Protostellar Outflows: An Infrared Outflow Survey in Low-luminosity Objects”
62. De Simone, M., Codella, C., Testi, L., **Belloche, A.**, Maury, A. J., Anderl, S., André, Ph., Maret, S., Podio, L. **2017**, A&A, 599, A121
“Glycolaldehyde in Perseus young solar analogs”
63. Müller, H. S. P., Walters, A., Wehres, N., **Belloche, A.**, et al. **2016**, A&A, 595, A87
“Laboratory spectroscopic study and astronomical detection of vibrationally excited n-propyl cyanide”
64. Podio, L., Codella, C., Gueth, F., Cabrit, S., Maury, A., Tabone, B., Lefèvre, C., Anderl, S., André, Ph., **Belloche, A.**, Bontemps, S., Hennebelle, P., Lefloch, B., Maret, S., Testi, L. **2016**, A&A, 593, L4
“First image of the L1157 molecular jet by the CALYPSO IRAM-PdBI survey”
65. Kama, M., Bruderer, S., van Dishoeck, E. F., Hogerheijde, M., Folsom, C. P., Miotello, A., Fedele, D., **Belloche, A.**, Güsten, R., Wyrowski, F. **2016**, A&A, 592, A83
“Volatile-carbon locking and release in protoplanetary disks. A study of TW Hya and HD 100546”
66. Hsieh, T.-H., Lai, S.-P., **Belloche, A.**, & Wyrowski, F. **2016**, ApJ, 826, 68
“IRAS 16253-2429: The First Proto-brown Dwarf Binary Candidate Identified through the Dynamics of Jets”
67. Anderl, S., Maret, S., Cabrit, S., **Belloche, A.**, Maury, A. J., André, Ph., Codella, C., Bacmann, A., Bontemps, S., Podio, L., Gueth, F., Bergin, E. **2016**, A&A, 591, A3

“Probing the CO and methanol snow lines in young protostars. Results from the CALYPSO IRAM-PdBI survey”

68. Margulès, L., **Belloche, A.**, Müller, H. S. P., Motiyenko, R. A., Guillemin, J.-C., Garrod, R. T., Menten, K. M. **2016**, A&A, 590, A93
“Spectroscopic study and astronomical detection of doubly ¹³C-substituted ethyl cyanide”
69. Varela, K., van Eerten, H., Greiner, J., et al. **2016**, A&A, 589, A37
“Microphysics and dynamics of the gamma-ray burst 121024A”
70. Punanova, A., Caselli, P., Pon, A., **Belloche, A.**, André, Ph. **2016**, A&A, 587, A118
“Deuterium fractionation in the Ophiuchus molecular cloud”
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