L. N. Tram Publication List

[1] J.-W. Wang et al. "Filamentary Network and Magnetic Field Structures Revealed with BISTRO in the High-mass Star-forming Region NGC 2264: Global Properties and Local Magnetogravitational Configurations". In: 962.2, 136 (Feb. 2024), p. 136. DOI: 10.3847/1538-4357/ad165b.

[2] T. D. Hoang, A. Karska, M. Y. Lee, F. Wyrowski, L. N. **Tram**, A. Yang, and K. M. Menten. "Velocity-resolved high-J CO emission from massive star-forming clumps". In: 679, A121 (Nov. 2023), A121. DOI: 10.1051/0004-6361/202347163.

[3] T. Hoang, V. H. Minh Phan, and L. N. **Tram**. "Internal and External Alignment of Carbonaceous Grains within the Radiative Torque Paradigm". In: *The Astrophysical Journal* 954, 216 (Sept. 2023), p. 216. DOI: 10.3847/1538-4357/ace788.

[4] N. B. Ngoc, P. N. Diep, T. Hoang, L. N. **Tram**, N. C. Giang, N. Lê, T. D. Hoang, N. T. Phuong, N. M. Khang, D. D. Nguyen, and B. Truong. "B-fields and Dust in Interstellar Filaments Using Dust Polarization (BALLAD-POL). I. The Massive Filament G11.11-0.12 Observed by SOFIA/HAWC+". In: *The Astrophysical Journal* 953, 66 (Aug. 2023), p. 66. DOI: 10.3847/1538-4357/acdb6e.

[5] J. Karoly et al. "The JCMT BISTRO Survey: Studying the Complex Magnetic Field of L43". In: *The Astrophysical Journal* 952, 29 (July 2023), p. 29. DOI: 10.3847/1538-4357/acd6f2.

[6] J. Rho, A. P. Ravi, L. N. **Tram**, T. Hoang, J. Chastenet, M. Millard, M. J. Barlow, I. De Looze, H. L. Gomez, F. Kirchschlager, and L. Dunne. "Far-infrared polarization of the supernova remnant Cassiopeia A with SOFIA HAWC +". In: *Monthly Notices of the Royal Astronomical Society* 522 (June 2023), pp. 2279–2296. DOI: 10.1093/mnras/stad1094.

[7] N. C. Giang, T. Hoang, J.-G. Kim, and L. N. **Tram**. "Physical modelling of dust polarization from magnetically enhanced radiative torque alignment in protostellar cores with POLARIS". In: *Monthly Notices of the Royal Astronomical Society* 520 (Apr. 2023), pp. 3788–3826. DOI: 10.1093/mnras/stad020.

[8] D. Ward-Thompson et al. "First BISTRO Observations of the Dark Cloud Taurus L1495A-B10: The Role of the Magnetic Field in the Earliest Stages of Low-mass Star Formation". In: *The Astrophysical Journal* 946, 62 (Apr. 2023), p. 62. DOI: 10.3847/1538-4357/acbea4.

[9] L. N. **Tram***, L. Bonne, Y. Hu, E. Lopez-Rodriguez, J. A. Guerra, P. Lesaffre, A. Gusdorf, T. Hoang, M.-Y. Lee, A. Lazarian, B. G. Andersson, S. Coudé, A. Soam, W. D. Vacca, H. Lee, and M. Gordon. "SOFIA Observations of 30 Doradus. II. Magnetic Fields and Large-scale Gas Kinematics". In: *The Astrophysical Journal* 946, 8 (Mar. 2023), p. 8. DOI: 10.3847/1538-4357/acaab0.

[10] N. Fuda, L. N. **Tram***, and W. T. Reach. "Modeling CO Line Profiles in Shocks of W28 and IC 443". In: *The Astrophysical Journal* 944, 17 (Feb. 2023), p. 17. DOI: 10.3847/1538-4357/acb259.

[11] P. Mazumdar, L. N. **Tram**, F. Wyrowski, K. M. Menten, and X. Tang. "Submillimeter observations of molecular gas interacting with the supernova remnant W28". In: *Astronomy & Astrophysics* 668, A180 (Dec. 2022), A180. DOI: 10.1051/0004-6361/202037564.

[12] T.-C. Ching et al. "The JCMT BISTRO-2 Survey: Magnetic Fields of the Massive DR21 Filament". In: *The Astrophysical Journal* 941, 122 (Dec. 2022), p. 122. DOI: 10.3847/1538-4357/ac9dfb.

[13] J. Hwang et al. "The JCMT BISTRO Survey: A Spiral Magnetic Field in a Hub-filament Structure, Monoceros R2". In: *The Astrophysical Journal* 941, 51 (Dec. 2022), p. 51. DOI: 10.3847/1538-4357/ac99e0.

[14] T. Hoang, L. N. **Tram**, V. H. Minh Phan, N. C. Giang, N. T. Phuong, and N. D. Dieu. "On Internal and External Alignment of Dust Grains in Protostellar Environments". In: *The Astronomical Journal* 164, 248 (Dec. 2022), p. 248. DOI: 10.3847/1538-3881/ac9af5.

[15] L. N. **Tram*** and T. Hoang. "Recent progress in theory and observational study of dust grain alignment and rotational disruption in star-forming regions". In: *Frontiers in Astronomy and Space Sciences* 9, 923927 (Oct. 2022), p. 923927. DOI: 10.3389/fspas.2022.923927.

[16] N. C. Giang, T. Hoang, L. N. **Tram**, N. D. Dieu, P. N. Diep, N. T. Phuong, B. V. Tuan, and B. Truong. "On Planet Formation around Supermassive Black Holes and Grain Disruption Barriers by Radiative Torques". In: *The Astrophysical Journal* 936, 108 (Sept. 2022), p. 108. DOI: 10.3847/1538-4357/ac80c2.

[17] B. Truong, L. N. **Tram***, T. Hoang, N. C. Giang, P. N. Diep, D. D. Nguyen, N. T. Phuong, T. D. Hoang, N. B. Ngoc, N. Fuda, H. Phan, and T. V. Bui. "Modeling Extinction and Reddening Effects by Circumstellar Dust in the Betelgeuse Envelope in the Presence of Radiative Torque Disruption". In: *The Astrophysical Journal* 936, 101 (Sept. 2022), p. 101. DOI: 10.3847/1538-4357/ac86d9.

[18] T. D. Hoang, N. B. Ngoc, P. N. Diep, L. N. **Tram**, T. Hoang, K. Pattle, W. Lim, N. Le, D. D. Nguyen, N. T. Phuong, N. Fuda, T. V. Bui, G. B. Truong Le, H. Phan, and N. C. Giang. "Studying Magnetic Fields and Dust in M17 Using Polarized Thermal Dust Emission Observed by SOFIA/HAWC+". In: *The Astrophysical Journal* 929, 27 (Apr. 2022), p. 27. DOI: 10.3847/1538-4357/ac5abf.

[19] W. Kwon et al. "B-fields in Star-forming Region Observations (BISTRO): Magnetic Fields in the Filamentary Structures of Serpens Main". In: *The Astrophysical Journal* 926, 163 (Feb. 2022), p. 163. DOI: 10.3847/1538-4357/ac4bbe.

[20] W. T. Reach, M. Ruaud, H. Wiesemeyer, D. Riquelme, L. N. **Tram**, J. Cernicharo, N. Smith, and E. T. Chambers. "Ionized Carbon around IRC+10216". In: *The Astrophysical Journal* 926, 69 (Feb. 2022), p. 69. DOI: 10.3847/1538-4357/ac4162.

[21] L. N. **Tram***, T. Hoang, E. Lopez-Rodriguez, S. Coudé, A. Soam, B. G. Andersson, M.-Y. Lee, L. Bonne, W. D. Vacca, and H. Lee. "SOFIA Observations of 30 Doradus. I. Far-infrared Dust Polarization and Implications for Grain Alignment and Disruption by Radiative Torques". In: *The Astrophysical Journal* 923, 130 (Dec. 2021), p. 130. DOI: 10.3847/1538-4357/ac13a1.

[22] A. S. Borlaff, E. Lopez-Rodriguez, R. Beck, R. Stepanov, E. Ntormousi, A. Hughes, K. Tassis, P. M. Marcum, L. Grosset, J. E. Beckman, L. Proudfit, S. E. Clark, T. Dıaz-Santos, S. A. Mao, W. T. Reach, J. Roman-Duval, K. Subramanian, L. N. **Tram**, E. G. Zweibel, D. Dale, and Legacy Team. "Extragalactic Magnetism with SOFIA (Legacy Program). I. The Magnetic Field in the Multiphase Interstellar Medium of M51". In: *The Astrophysical Journal* 921, 128 (Nov. 2021), p. 128. DOI: 10.3847/1538-4357/ac16d7.

[23] A.-R. Lyo et al. "The JCMT BISTRO Survey: An 850/450 μm Polarization Study of NGC 2071IR in Orion B". In: *The Astrophysical Journal* 918, 85 (Sept. 2021), p. 85. DOI: 10.3847/1538-4357/ac0ce9.

[24] J. Rho, T. H. Jarrett, L. N. **Tram**, W. Lim, W. T. Reach, J. Bieging, H. .-. Lee, B. .-. Koo, and B. Whitney. "Shocked Molecular Hydrogen and Broad CO Lines from the Interacting Supernova Remnant HB 3". In: *The Astrophysical Journal* 917, 47 (Aug. 2021), p. 47. DOI: 10.3847/1538-4357/ac08a4.

[25] D. Arzoumanian et al. "Dust polarized emission observations of NGC 6334. BISTRO reveals the details of the complex but organized magnetic field structure of the high-mass star-forming hub-filament network". In: *Astronomy & Astrophysics* 647, A78 (Mar. 2021), A78. DOI: 10.1051/0004-6361/202038624.

[26] L. N. **Tram***, H. Lee, T. Hoang, J. M. Michail, D. T. Chuss, S. Nickerson, N. Rangwala, and W. T. Reach. "Observational Evidence for Rotational Desorption of Complex Molecules by Radiative Torques from Orion BN/KL". In: *The Astrophysical Journal* 908, 159 (Feb. 2021), p. 159. DOI: 10.3847/1538-4357/abccbe.

[27] N. B. Ngoc et al. "Observations of Magnetic Fields Surrounding LkHα 101 Taken by the BISTRO Survey with JCMT-POL-2". In: *The Astrophysical Journal* 908, 10 (Feb. 2021), p. 10. DOI: 10.3847/1538-4357/abd0fc.

[28] T. Hoang, L. N. **Tram**, H. Lee, P. N. Diep, and N. B. Ngoc. "Grain Alignment and Disruption by Radiative Torques in Dense Molecular Clouds and Implication for Polarization Holes". In: *The Astrophysical Journal* 908, 218 (Feb. 2021), p. 218. DOI: 10.3847/1538-4357/abd54f.

[29] L. N. **Tram***, T. Hoang, H. Lee, F. P. Santos, A. Soam, P. Lesaffre, A. Gusdorf, and W. T. Reach. "Understanding Polarized Dust Emission from ρ Ophiuchi A in Light of Grain Alignment and Disruption by Radiative Torques". In: *The Astrophysical Journal* 906, 115 (Jan. 2021), p. 115. DOI: 10.3847/1538-4357/abc6fe.

[30] J. M. Michail, P. C. Ashton, M. G. Berthoud, D. T. Chuss, C. D. Dowell, J. A. Guerra, D. A. Harper, G. Novak, F. P. Santos, J. Siah, E. Sukay, A. Taylor, L. N. **Tram**, J. E. Vaillancourt, and E. J. Wollack. "Far-infrared Polarization Spectrum of the OMC-1 Star-forming Region". In: *The Astrophysical Journal* 907, 46 (Jan. 2021), p. 46. DOI: 10.3847/1538-4357/abd090.

[31] P. Dell'Ova, A. Gusdorf, M. Gerin, D. Riquelme, R. Güsten, A. Noriega-Crespo, L. N. **Tram**, M. Houde, P. Guillard, A. Lehmann, P. Lesaffre, F. Louvet, A. Marcowith, and M. Padovani. "Interstellar anatomy of the TeV gamma-ray peak in the IC443 supernova remnant". In: *Astronomy & Astrophysics* 644, A64 (Dec. 2020), A64. DOI: 10.1051/0004-6361/202038339.

[32] P. Lesaffre, P. Todorov, F. Levrier, V. Valdivia, N. Dzyurkevich, B. Godard, L. N. **Tram**, A. Gusdorf, A. Lehmann, and E. Falgarone. "Production and excitation of molecules by dissipation of two-dimensional turbulence". In: *Monthly Notices of the Royal Astronomical Society* 495 (June 2020), pp. 816–834. DOI: 10.1093/mnras/staa849.

[33] T. Hoang, N. C. Giang, and L. N. **Tram**. "Gamma-Ray Burst Afterglows: Time-varying Extinction, Polarization, and Colors due to Rotational Disruption of Dust Grains". In: *The Astrophysical Journal* 895, 16 (May 2020), p. 16. DOI: 10.3847/1538-4357/ab8ae1.

[34] L. N. **Tram***, T. Hoang, A. Soam, P. Lesaffre, and W. T. Reach. "Modeling Rotational Disruption of Grains and Microwave Emission from Spinning Dust in AGB Envelopes". In: *The Astrophysical Journal* 893, 138 (Apr. 2020), p. 138. DOI: 10.3847/1538-4357/ab7b5e.

[35] T. Hoang and L. N. **Tram**. "Rotational Desorption of Ice Mantles from Suprathermally Rotating Grains around Young Stellar Objects". In: *The Astrophysical Journal* 891, 38 (Mar. 2020), p. 38. DOI: 10.3847/1538-4357/ab6eff.

[36] N. C. Giang, T. Hoang, and L. N. **Tram**. "Time-varying Extinction, Polarization, and Colors of Type Ia Supernovae due to Rotational Disruption of Dust Grains". In: *The Astrophysical Journal* 888, 93 (Jan. 2020), p. 93. DOI: 10.3847/1538-4357/ab5d37.

[37] L. N. **Tram*** and T. Hoang. "Dust Rotational Dynamics in Nonstationary Shock: Rotational Disruption of Nanoparticles by Stochastic Mechanical Torques and Spinning Dust Emission". In: *The Astrophysical Journal* 886, 44 (Nov. 2019), p. 44. DOI: 10.3847/1538-4357/ab487e.

[38] W. T. Reach, L. N. **Tram**, M. Richter, A. Gusdorf, and C. DeWitt. "Supernova Shocks in Molecular Clouds: Velocity Distribution of Molecular Hydrogen". In: *The Astrophysical Journal* 884, 81 (Oct. 2019), p. 81. DOI: 10.3847/1538-4357/ab41f7.

[39] D. A. Neufeld, C. DeWitt, P. Lesaffre, S. Cabrit, A. Gusdorf, L. N. **Tram**, and M. Richter. "SOFIA/EXES Observations of Warm H_2 at High Spectral Resolution: Witnessing Para-to-ortho Conversion behind a Molecular Shock Wave in HH7". In: *The Astrophysical Journall* 878, L18 (June 2019), p. L18. DOI: 10.3847/2041-8213/ab2249.

[40] T. Hoang and L. N. **Tram**. "Dust Rotational Dynamics in C-shocks: Rotational Disruption of Nanoparticles by Stochastic Mechanical Torques and Spinning Dust Emission". In: *The Astrophysical Journal* 877, 36 (May 2019), p. 36. DOI: 10.3847/1538-4357/ab1845.

[41] T. Hoang, L. N. **Tram**, H. Lee, and S.-H. Ahn. "Rotational disruption of dust grains by radiative torques in strong radiation fields". In: *Nature Astronomy* 3 (May 2019), pp. 766–775. DOI: 10.1038/s41550-019-0763-6.

[42] L. N. **Tram***, P. Lesaffre, S. Cabrit, A. Gusdorf, and P. T. Nhung. "H_2 emission from non-stationary magnetized bow shocks". In: *Monthly Notices of the Royal Astronomical Society* 473 (Jan. 2018), pp. 1472–1488. DOI: 10.1093/mnras/stx2334.

Preprint

[43] J.-W. Wang et al. "Filamentary Network and Magnetic Field Structures Revealed with BISTRO in the High-Mass Star-Forming Region NGC2264 : Global Properties and Local Magnetogravitational Configurations". In: *arXiv e-prints*, arXiv:2401.12728 (Jan. 2024), arXiv:2401.12728. DOI: 10.48550/arXiv.2401.12728.

[44] S. Martin-Alvarez, E. Lopez-Rodriguez, T. Dacunha, S. E. Clark, A. S. Borlaff, R. Beck, F. Rodrıguez Montero, S. L. Jung, J. Devriendt, A. Slyz, J. Roman-Duval, E. Ntormousi, M. Tahani, K. Subramanian, D. A. Dale, P. M. Marcum, K. Tassis, I. del Moral-Castro, L. N. **Tram**, and M. J. Jarvis. "Extragalactic Magnetism with SOFIA (SALSA Legacy Program). VII. A tomographic view of far infrared and radio polarimetric observations through MHD simulations of galaxies". In: *arXiv e-prints*, arXiv:2311.06356 (Nov. 2023), arXiv:2311.06356. DOI: 10.48550/arXiv.2311.06356.

[45] T. Nguyen Tat, P. N. Diep, T. Hoang, L. N. **Tram**, N. Bich Ngoc, N. T. Phuong, and B. Truong. "Evidence of grain alignment by magnetically enhanced radiative torques from multi-wavelength dust polarization modeling of HL Tau". In: *arXiv e-prints*, arXiv:2401.00220 (Dec. 2023), arXiv:2401.00220. DOI: 10.48550/arXiv.2401.00220.