

Bibliography

- [1] Henkel, C., Hunt, L. K., and Izotov, Y. I. The Interstellar Medium of Dwarf Galaxies. *Galaxies*, 10(1):11, 2022.
- [2] Schechter, P. An analytic expression for the luminosity function for galaxies. *The Astrophysical Journal*, 203:297–306, 1976.
- [3] Marzke, R. O. and da Costa, L. N. The Galaxy Luminosity Function at $z \leq 0.05$: Dependence on Color. *The Astronomical Journal*, 113:185, 1997.
- [4] Ellis, R. S. Faint Blue Galaxies. *Annual Review of Astronomy and Astrophysics*, 35:389–443, 1997.
- [5] White, S. D. M. and Rees, M. J. Core condensation in heavy halos: a two-stage theory for galaxy formation and clustering. *Monthly Notices of Royal Astronomical Society*, 183:341–358, 1978.
- [6] Tolstoy, E., Hill, V., and Tosi, M. Star-Formation Histories, Abundances, and Kinematics of Dwarf Galaxies in the Local Group. *Annual Review of Astronomy and Astrophysics*, 47(1):371–425, 2009.
- [7] Draine, B. T. *Physics of the interstellar and intergalactic medium*, volume 19. Princeton University Press, 2010.
- [8] Trumpler, R. J. Spectrophotometric Measures of Interstellar Light Absorption. *Publications of the Astronomical Society of the Pacific*, 42(249):267, 1930.
- [9] Bernstein, R. A., Freedman, W. L., and Madore, B. F. The First Detections of the Extragalactic Background Light at 3000, 5500, and 8000 Å. I. Results. *The Astrophysical Journal*, 571(1):56–84, 2002.
- [10] Draine, B. T. Interstellar Dust Models and Evolutionary Implications. In Henning, T., Grün, E., and Steinacker, J., editors, *Cosmic Dust - Near and Far*, volume 414 of *Astronomical Society of the Pacific Conference Series*, 453. 2009.
- [11] Draine, B. T. Interstellar Dust Grains. *Annual Review of Astronomy and Astrophysics*, 41:241–289, 2003.
- [12] Welty, D. E. and Fowler, J. R. Ultraviolet, Optical, and Infrared Observations of the High-Latitude Molecular Cloud toward HD 210121. *The Astrophysical Journal*, 393:193, 1992.

- [13] Cardelli, J. A., Clayton, G. C., and Mathis, J. S. The Relationship between Infrared, Optical, and Ultraviolet Extinction. *The Astrophysical Journal*, 345:245, 1989.
- [14] Fitzpatrick, E. L. Correcting for the Effects of Interstellar Extinction. *Publications of the Astronomical Society of the Pacific*, 111(755):63–75, 1999.
- [15] Savage, B. D. and Mathis, J. S. Observed properties of interstellar dust. *Annual Review of Astronomy and Astrophysics*, 17:73–111, 1979.
- [16] Draine, B. T. and Salpeter, E. E. Time-dependent nucleation theory. *Journal of Chemical Physics*, 67(5):2230–2235, 1977.
- [17] Yamamoto, T. and Hasegawa, H. Grain Formation through Nucleation Process in Astrophysical Environment. *Progress of Theoretical Physics*, 58(3):816–828, 1977.
- [18] Gehrz, R. Sources of Stardust in the Galaxy. In Allamandola, L. J. and Tielens, A. G. G. M., editors, *Interstellar Dust*, volume 135, 445. 1989.
- [19] Matsuura, M., Barlow, M. J., Zijlstra, A. A., Whitelock, P. A., Cioni, M. R. L., Groenewegen, M. A. T., Volk, K., Kemper, F., Kodama, T., Lagadec, E., Meixner, M., Sloan, G. C., and Srinivasan, S. The global gas and dust budget of the Large Magellanic Cloud: AGB stars and supernovae, and the impact on the ISM evolution. *Monthly Notices of Royal Astronomical Society*, 396(2):918–934, 2009.
- [20] Inoue, A. K. The origin of dust in galaxies revisited: the mechanism determining dust content. *Earth, Planets and Space*, 63(10):1027–1039, 2011.
- [21] Dunne, L., Eales, S., Ivison, R., Morgan, H., and Edmunds, M. Type II supernovae as a significant source of interstellar dust. *Nature*, 424(6946):285–287, 2003.
- [22] Morgan, H. L., Dunne, L., Eales, S. A., Ivison, R. J., and Edmunds, M. G. Cold Dust in Kepler’s Supernova Remnant. *The Astrophysical Journal Letters*, 597(1):L33–L36, 2003.
- [23] Sakon, I., Onaka, T., Wada, T., Ohyama, Y., Kaneda, H., Ishihara, D., Tanabé, T., Minezaki, T., Yoshii, Y., Tominaga, N., Nomoto, K., Nozawa, T., Kozasa, T., Tanaka, M., Suzuki, T., Umeda, H., Ohyabu, S., Usui, F., Matsuhara, H., Nakagawa, T., and Murakami, H. Properties of Newly Formed Dust by SN 2006JC Based on Near- to Mid-Infrared Observation With AKARI. *The Astrophysical Journal*, 692(1):546–555, 2009.
- [24] Rho, J., Kozasa, T., Reach, W. T., Smith, J. D., Rudnick, L., DeLaney, T., Ennis, J. A., Gomez, H., and Tappe, A. Freshly Formed Dust in the Cassiopeia A Supernova Remnant as Revealed by the Spitzer Space Telescope. *The Astrophysical Journal*, 673(1):271–282, 2008.
- [25] Nozawa, T., Kozasa, T., Tominaga, N., Maeda, K., Umeda, H., Nomoto, K., and Krause, O. Formation and Evolution of Dust in Type IIb Supernovae with Application to the Cassiopeia A Supernova Remnant. *The Astrophysical Journal*, 713(1):356–373, 2010.

- [26] Onaka, T. and Kamijo, F. Destruction of interstellar grains by sputtering. *Astronomy and Astrophysics*, 64(1-2):53–60, 1978.
- [27] Draine, B. T. Evolution of interstellar dust. In Blitz, L., editor, *The Evolution of the Interstellar Medium*, volume 12 of *Astronomical Society of the Pacific Conference Series*, 193–205. 1990.
- [28] McKee, C. Dust Destruction in the Interstellar Medium. In Allamandola, L. J. and Tielens, A. G. G. M., editors, *Interstellar Dust*, volume 135, 431. 1989.
- [29] Jones, A. P., Tielens, A. G. G. M., and Hollenbach, D. J. Grain Shattering in Shocks: The Interstellar Grain Size Distribution. *The Astrophysical Journal*, 469:740, 1996.
- [30] Greenberg, J. M. and Chlewicki, G. A far Ultraviolet extinction law : what does it mean ? *The Astrophysical Journal*, 272:563–578, 1983.
- [31] Stecher, T. P. Interstellar Extinction in the Ultraviolet. *The Astrophysical Journal*, 142:1683, 1965.
- [32] Fitzpatrick, E. L. and Massa, D. An Analysis of the Shapes of Ultraviolet Extinction Curves. I. The 2175 Angstrom Bump. *The Astrophysical Journal*, 307:286, 1986.
- [33] Stecher, T. P. and Donn, B. On Graphite and Interstellar Extinction. *The Astrophysical Journal*, 142:1681, 1965.
- [34] Draine, B. T. and Malhotra, S. On Graphite and the 2175 Angstrom Extinction Profile. *The Astrophysical Journal*, 414:632, 1993.
- [35] Weingartner, J. C. and Draine, B. T. Dust Grain-Size Distributions and Extinction in the Milky Way, Large Magellanic Cloud, and Small Magellanic Cloud. *The Astrophysical Journal*, 548(1):296–309, 2001.
- [36] Li, A. and Draine, B. T. On Ultrasmall Silicate Grains in the Diffuse Interstellar Medium. *The Astrophysical Journal Letters*, 550(2):L213–L217, 2001.
- [37] Blasberger, A., Behar, E., Perets, H. B., Brosch, N., and Tielens, A. G. G. M. Observational Evidence Linking Interstellar UV Absorption to PAH Molecules. *The Astrophysical Journal*, 836(2):173, 2017.
- [38] Kraetschmer, W. and Huffman, D. R. Infrared extinction of heavy ion irradiated and amorphous olivine, with applications to interstellar dust. *Astrophysics and Space Science*, 61(1):195–203, 1979.
- [39] Day, K. L. Mid-infrared optical properties of vapor-condensed magnesium silicates. *The Astrophysical Journal*, 234:158–161, 1979.
- [40] Henning, T. and Mutschke, H. Optical properties of cosmic dust analogs: a review. *Journal of Nanophotonics*, 4(1):041580–041580, 2010.
- [41] Whittet, D. C. B., Bode, M. F., Longmore, A. J., Adamson, A. J., McFadzean, A. D., Aitken, D. K., and Roche, P. F. Infrared spectroscopy of dust in the Taurus dark clouds : ice and silicates. *Monthly Notices of Royal Astronomical Society*, 233:321–336, 1988.

- [42] Leger, A. and Puget, J. L. Identification of the Unidentified Infrared Emission Features of Interstellar Dust. *Astronomy and Astrophysics*, 137:L5–L8, 1984.
- [43] Allamandola, L. J., Tielens, A. G. G. M., and Barker, J. R. Interstellar Polycyclic Aromatic Hydrocarbons: The Infrared Emission Bands, the Excitation/Emission Mechanism, and the Astrophysical Implications. *The Astrophysical Journal Supplement Series*, 71:733, 1989.
- [44] Li, A. and Draine, B. T. Are Silicon Nanoparticles an Interstellar Dust Component? *The Astrophysical Journal*, 564(2):803–812, 2002.
- [45] Sofia, U. J. and Meyer, D. M. Interstellar Abundance Standards Revisited. *The Astrophysical Journal Letters*, 554(2):L221–L224, 2001.
- [46] Treffers, R. and Cohen, M. High-resolution spectra of cool stars in the 10- and 20-micron regions. *The Astrophysical Journal*, 188:545–552, 1974.
- [47] Whittet, D. C. B., Duley, W. W., and Martin, P. G. On the abundance of silicon carbide in the interstellar medium. *Monthly Notices of Royal Astronomical Society*, 244:427, 1990.
- [48] Kemper, F., Molster, F. J., Jäger, C., and Waters, L. B. F. M. The mineral composition and spatial distribution of the dust ejecta of NGC 6302. *Astronomy and Astrophysics*, 394:679–690, 2002.
- [49] Mathis, J. S., Rumpl, W., and Nordsieck, K. H. The size distribution of interstellar grains. *The Astrophysical Journal*, 217:425–433, 1977.
- [50] Zubko, V., Dwek, E., and Arendt, R. G. Interstellar Dust Models Consistent with Extinction, Emission, and Abundance Constraints. *The Astrophysical Journal Supplement Series*, 152(2):211–249, 2004.
- [51] Draine, B. T. and Fraise, A. A. Polarized Far-Infrared and Submillimeter Emission from Interstellar Dust. *The Astrophysical Journal*, 696(1):1–11, 2009.
- [52] Yan, H. and Lazarian, A. Grain Acceleration by Magnetohydrodynamic Turbulence: Gyroresonance Mechanism. *The Astrophysical Journal Letters*, 592(1):L33–L36, 2003.
- [53] Hirashita, H. and Kuo, T.-M. Effects of grain size distribution on the interstellar dust mass growth. *Monthly Notices of Royal Astronomical Society*, 416(2):1340–1353, 2011.
- [54] Draine, B. T. and Anderson, N. Temperature fluctuations and infrared emission from interstellar grains. *The Astrophysical Journal*, 292:494–499, 1985.
- [55] Desert, F. X., Boulanger, F., and Puget, J. L. Interstellar Dust Models for Extinction and Emission. *Astronomy and Astrophysics*, 237:215, 1990.
- [56] Compiègne, M., Verstraete, L., Jones, A., Bernard, J. P., Boulanger, F., Flagey, N., Le Bourlot, J., Paradis, D., and Ysard, N. The global dust SED: tracing the nature and evolution of dust with DustEM. *Astronomy and Astrophysics*, 525:A103, 2011.

- [57] Fazio, G. G., Hora, J. L., Allen, L. E., Ashby, M. L. N., Barmby, P., Deutsch, L. K., Huang, J. S., Kleiner, S., Marengo, M., Megeath, S. T., Melnick, G. J., Pahre, M. A., Patten, B. M., Polizotti, J., Smith, H. A., Taylor, R. S., Wang, Z., Willner, S. P., Hoffmann, W. F., Pipher, J. L., Forrest, W. J., McMurty, C. W., McCreight, C. R., McKelvey, M. E., McMurray, R. E., Koch, D. G., Moseley, S. H., Arendt, R. G., Mentzell, J. E., Marx, C. T., Losch, P., Mayman, P., Eichhorn, W., Krebs, D., Jhabvala, M., Gezari, D. Y., Fixsen, D. J., Flores, J., Shakoorzadeh, K., Jungo, R., Hakun, C., Workman, L., Karpati, G., Kichak, R., Whitley, R., Mann, S., Tollestrup, E. V., Eisenhardt, P., Stern, D., Gorjian, V., Bhattacharya, B., Carey, S., Nelson, B. O., Glaccum, W. J., Lacy, M., Lowrance, P. J., Laine, S., Reach, W. T., Stauffer, J. A., Surace, J. A., Wilson, G., Wright, E. L., Hoffman, A., Domingo, G., and Cohen, M. The Infrared Array Camera (IRAC) for the Spitzer Space Telescope. *The Astrophysical Journal Supplement Series*, 154(1):10–17, 2004.
- [58] Rieke, G. H., Young, E. T., Engelbracht, C. W., Kelly, D. M., Low, F. J., Haller, E. E., Beeman, J. W., Gordon, K. D., Stansberry, J. A., Misselt, K. A., Cadien, J., Morrison, J. E., Rivlis, G., Latter, W. B., Noriega-Crespo, A., Padgett, D. L., Stapelfeldt, K. R., Hines, D. C., Egami, E., Muzerolle, J., Alonso-Herrero, A., Blaylock, M., Dole, H., Hinz, J. L., Le Floch, E., Papovich, C., Pérez-González, P. G., Smith, P. S., Su, K. Y. L., Bennett, L., Frayer, D. T., Henderson, D., Lu, N., Masci, F., Pesenson, M., Rebull, L., Rho, J., Keene, J., Stolovy, S., Wachter, S., Wheaton, W., Werner, M. W., and Richards, P. L. The Multiband Imaging Photometer for Spitzer (MIPS). *The Astrophysical Journal Supplement Series*, 154(1):25–29, 2004.
- [59] Houck, J. R., Roellig, T. L., van Cleve, J., Forrest, W. J., Herter, T., Lawrence, C. R., Matthews, K., Reitsema, H. J., Soifer, B. T., Watson, D. M., Weedman, D., Huisjen, M., Troeltzsch, J., Barry, D. J., Bernard-Salas, J., Blacken, C. E., Brandl, B. R., Charmandaris, V., Devost, D., Gull, G. E., Hall, P., Henderson, C. P., Higdon, S. J. U., Pirger, B. E., Schoenwald, J., Sloan, G. C., Uchida, K. I., Appleton, P. N., Armus, L., Burgdorf, M. J., Fajardo-Acosta, S. B., Grillmair, C. J., Ingalls, J. G., Morris, P. W., and Teplitz, H. I. The Infrared Spectrograph (IRS) on the Spitzer Space Telescope. *The Astrophysical Journal Supplement Series*, 154(1):18–24, 2004.
- [60] Poglitsch, A., Waelkens, C., Geis, N., Feuchtgruber, H., Vandenbussche, B., Rodriguez, L., Krause, O., Renotte, E., van Hoof, C., Saraceno, P., Cepa, J., Kerschbaum, F., Agnèse, P., Ali, B., Altieri, B., Andreani, P., Augueres, J. L., Balog, Z., Barl, L., Bauer, O. H., Belbachir, N., Benedettini, M., Billot, N., Boulade, O., Bischof, H., Blommaert, J., Callut, E., Cara, C., Cerulli, R., Cesarsky, D., Contursi, A., Creten, Y., De Meester, W., Doublier, V., Doumayrou, E., Duband, L., Exter, K., Genzel, R., Gillis, J. M., Grözinger, U., Henning, T., Herreros, J., Huygen, R., Inguccio, M., Jakob, G., Jamar, C., Jean, C., de Jong, J., Katterloher, R., Kiss, C., Klaas, U., Lemke, D., Lutz, D., Madden, S., Marquet, B., Martignac, J., Mazy, A., Merken, P., Montfort, F., Morbidelli, L., Müller, T., Nielbock, M., Okumura, K., Orfei, R., Ottensamer, R., Pezzuto, S., Popesso, P., Putzeys, J., Regibo, S., Reveret, V., Royer, P., Sauvage, M., Schreiber, J., Stegmaier, J., Schmitt, D., Schubert, J., Sturm, E., Thiel, M., Tofani, G., Vavrek, R., Wetzstein, M., Wieprecht, E., and Wiezorrek, E. The Photodetector Array Camera and Spectrometer (PACS) on the Herschel Space Observatory. *Astronomy and Astrophysics*, 518:L2, 2010.

- [61] Griffin, M. J., Abergel, A., Abreu, A., Ade, P. A. R., André, P., Augueres, J. L., Babbedge, T., Bae, Y., Baillie, T., Baluteau, J. P., Barlow, M. J., Bendo, G., Benielli, D., Bock, J. J., Bonhomme, P., Brisbin, D., Brockley-Blatt, C., Caldwell, M., Cara, C., Castro-Rodriguez, N., Cerulli, R., Chaniel, P., Chen, S., Clark, E., Clements, D. L., Clerc, L., Coker, J., Communal, D., Conversi, L., Cox, P., Crumb, D., Cunningham, C., Daly, F., Davis, G. R., de Antoni, P., Delderfield, J., Devin, N., di Giorgio, A., Didschuns, I., Dohlen, K., Donati, M., Dowell, A., Dowell, C. D., Duband, L., Dumaye, L., Emery, R. J., Ferlet, M., Ferrand, D., Fontignie, J., Fox, M., Franceschini, A., Frerking, M., Fulton, T., Garcia, J., Gastaud, R., Gear, W. K., Glenn, J., Goizel, A., Griffin, D. K., Grundy, T., Guest, S., Guillemet, L., Hargrave, P. C., Harwit, M., Hastings, P., Hatziminaoglou, E., Herman, M., Hinde, B., Hristov, V., Huang, M., Imhof, P., Isaak, K. J., Israelsson, U., Ivison, R. J., Jennings, D., Kiernan, B., King, K. J., Lange, A. E., Latter, W., Laurent, G., Laurent, P., Leeks, S. J., Lellouch, E., Levenson, L., Li, B., Li, J., Lilienthal, J., Lim, T., Liu, S. J., Lu, N., Madden, S., Mainetti, G., Marliani, P., McKay, D., Mercier, K., Molinari, S., Morris, H., Moseley, H., Mulder, J., Mur, M., Naylor, D. A., Nguyen, H., O'Halloran, B., Oliver, S., Olofsson, G., Olofsson, H. G., Orfei, R., Page, M. J., Pain, I., Panuzzo, P., Papageorgiou, A., Parks, G., Parr-Burman, P., Pearce, A., Pearson, C., Pérez-Fournon, I., Pinsard, F., Pisano, G., Podosek, J., Pohlen, M., Polehampton, E. T., Pouliquen, D., Rigopoulou, D., Rizzo, D., Roseboom, I. G., Roussel, H., Rowan-Robinson, M., Rownd, B., Saraceno, P., Sauvage, M., Savage, R., Savini, G., Sawyer, E., Scharnberg, C., Schmitt, D., Schneider, N., Schulz, B., Schwartz, A., Shafer, R., Shupe, D. L., Sibthorpe, B., Sidher, S., Smith, A., Smith, A. J., Smith, D., Spencer, L., Stobie, B., Sudiwala, R., Sukhatme, K., Surace, C., Stevens, J. A., Swinyard, B. M., Trichas, M., Tourette, T., Triou, H., Tseng, S., Tucker, C., Turner, A., Vaccari, M., Valtchanov, I., Vigroux, L., Virique, E., Voellmer, G., Walker, H., Ward, R., Waskett, T., Weilert, M., Wesson, R., White, G. J., Whitehouse, N., Wilson, C. D., Winter, B., Woodcraft, A. L., Wright, G. S., Xu, C. K., Zavagno, A., Zemcov, M., Zhang, L., and Zonca, E. The Herschel-SPIRE instrument and its in-flight performance. *Astronomy and Astrophysics*, 518:L3, 2010.
- [62] de Graauw, T., Helmich, F. P., Phillips, T. G., Stutzki, J., Caux, E., Whyborn, N. D., Dieleman, P., Roelfsema, P. R., Aarts, H., Assendorp, R., Bachiller, R., Baechtold, W., Barcia, A., Beintema, D. A., Belitsky, V., Benz, A. O., Bieber, R., Boogert, A., Borys, C., Bumble, B., Caïs, P., Caris, M., Cerulli-Irelli, P., Chattopadhyay, G., Cherednichenko, S., Ciechanowicz, M., Coeur-Joly, O., Comito, C., Cros, A., de Jonge, A., de Lange, G., Delforges, B., Delorme, Y., den Boggende, T., Desbat, J. M., Diez-González, C., di Giorgio, A. M., Dubbeldam, L., Edwards, K., Eggens, M., Erickson, N., Evers, J., Fich, M., Finn, T., Franke, B., Gaier, T., Gal, C., Gao, J. R., Gallego, J. D., Gauffre, S., Gill, J. J., Glenz, S., Golstein, H., Goulooze, H., Günsing, T., Güsten, R., Hartogh, P., Hatch, W. A., Higgins, R., Honingh, E. C., Huisman, R., Jackson, B. D., Jacobs, H., Jacobs, K., Jarchow, C., Javadi, H., Jellema, W., Justen, M., Karpov, A., Kasemann, C., Kawamura, J., Keizer, G., Kester, D., Klapwijk, T. M., Klein, T., Kollberg, E., Kooi, J., Kooiman, P. P., Kopf, B., Krause, M., Krieg, J. M., Kramer, C., Kruijenga, B., Kuhn, T., Laauwen, W., Lai, R., Larsson, B., Leduc, H. G., Leinz, C., Lin, R. H., Liseau, R., Liu, G. S., Loose, A., López-Fernandez, I., Lord, S., Luinge, W., Marston, A., Martín-Pintado, J., Maestrini, A., Maiwald, F. W., McCoey, C., Mehdi, I., Megej, A., Melchior, M., Meinsma, L., Merkel, H., Michalska, M., Monstein, C., Moratschke, D., Morris, P., Muller, H., Murphy, J. A.,

- Naber, A., Natale, E., Nowosielski, W., Nuzzolo, F., Olberg, M., Olbrich, M., Orfei, R., Orleanski, P., Ossenkopf, V., Peacock, T., Pearson, J. C., Peron, I., Phillip-May, S., Piazza, L., Planesas, P., Rataj, M., Ravera, L., Risacher, C., Salez, M., Samoska, L. A., Saraceno, P., Schieder, R., Schlecht, E., Schlöder, F., Schmölling, F., Schultz, M., Schuster, K., Siebertz, O., Smit, H., Szczerba, R., Shipman, R., Steinmetz, E., Stern, J. A., Stokroos, M., Teipen, R., Teyssier, D., Tils, T., Trappe, N., van Baaren, C., van Leeuwen, B. J., van de Stadt, H., Visser, H., Wildeman, K. J., Wafelbakker, C. K., Ward, J. S., Wesselius, P., Wild, W., Wulff, S., Wunsch, H. J., Tielens, X., Zaal, P., Zirath, H., Zmuidzinas, J., and Zwart, F. The Herschel-Heterodyne Instrument for the Far-Infrared (HIFI). *Astronomy and Astrophysics*, 518:L6, 2010.
- [63] Karachentsev, I. D. and Kaisina, E. I. Dwarf Galaxies in the Local Volume. *Astrophysical Bulletin*, 74(2):111–127, 2019.
- [64] Begum, A., Chengalur, J. N., Karachentsev, I. D., Sharina, M. E., and Kaisin, S. S. FIGGS: Faint Irregular Galaxies GMRT Survey - overview, observations and first results. *Monthly Notices of Royal Astronomical Society*, 386(3):1667–1682, 2008.
- [65] Walter, F., Brinks, E., de Blok, W. J. G., Bigiel, F., Kennicutt, J., Robert C., Thornley, M. D., and Leroy, A. THINGS: The H I Nearby Galaxy Survey. *The Astronomical Journal*, 136(6):2563–2647, 2008.
- [66] Cannon, J. M., Giovanelli, R., Haynes, M. P., Janowiecki, S., Parker, A., Salzer, J. J., Adams, E. A. K., Engstrom, E., Huang, S., McQuinn, K. B. W., Ott, J., Saintonge, A., Skillman, E. D., Allan, J., Erny, G., Fliss, P., and Smith, A. The Survey of H I in Extremely Low-mass Dwarfs (SHIELD). *The Astrophysical Journal Letters*, 739(1):L22, 2011.
- [67] Shostak, G. S. and Skillman, E. D. Neutral hydrogen observations of the irregular galaxy IC 10. *Astronomy and Astrophysics*, 214:33–42, 1989.
- [68] Carignan, C., Beaulieu, S., and Freeman, K. C. At the Low-Mass End: Light and H I Distribution of GR 8. *The Astronomical Journal*, 99:178, 1990.
- [69] Hodge, P. and Lee, M. G. The H II Regions of IC 10. *Publications of the Astronomical Society of the Pacific*, 102:26, 1990.
- [70] Hodge, P., Kennicutt, R. C., and Strobel, N. The H II Regions of Sextans A. *Publications of the Astronomical Society of the Pacific*, 106:765, 1994.
- [71] Skillman, E. D., Terlevich, R., Teuben, P. J., and van Woerden, H. H I synthesis observations of the dwarf irregular galaxy Sextans A. *Astronomy and Astrophysics*, 198:33–42, 1988.
- [72] Saito, M., Sasaki, M., Ohta, K., and Yamada, T. An H α Velocity Field in the Irregular Galaxy IC 10. *Publications of the Astronomical Society of Japan*, 44:593–600, 1992.
- [73] Galliano, F., Galametz, M., and Jones, A. P. The Interstellar Dust Properties of Nearby Galaxies. *Annual Review of Astronomy and Astrophysics*, 56:673–713, 2018.
- [74] Lebouteiller, V., Heap, S., Hubeny, I., and Kunth, D. Chemical enrichment and physical conditions in I Zw 18. *Astronomy and Astrophysics*, 553:A16, 2013.

- [75] Madden, S. C. and Cormier, D. Dwarf Galaxies: Their Low Metallicity Interstellar Medium. In McQuinn, K. B. W. and Stierwalt, S., editors, *Dwarf Galaxies: From the Deep Universe to the Present*, volume 344, 240–254. 2019.
- [76] Feldmann, R. The equilibrium view on dust and metals in galaxies: Galactic outflows drive low dust-to-metal ratios in dwarf galaxies. *Monthly Notices of Royal Astronomical Society*, 449(3):3274–3292, 2015.
- [77] Li, A. Spitzer’s perspective of polycyclic aromatic hydrocarbons in galaxies. *Nature Astronomy*, 4:339–351, 2020.
- [78] Engelbracht, C. W., Rieke, G. H., Gordon, K. D., Smith, J. D. T., Werner, M. W., Moustakas, J., Willmer, C. N. A., and Vanzi, L. Metallicity Effects on Dust Properties in Starbursting Galaxies. *The Astrophysical Journal*, 678(2):804–827, 2008.
- [79] Rosenberg, J. L., Wu, Y., Le Floc’h, E., Charmandaris, V., Ashby, M. L. N., Houck, J. R., Salzer, J. J., and Willner, S. P. Dust Properties and Star Formation Rates in Star-Forming Dwarf Galaxies. *The Astrophysical Journal*, 674(2):814–830, 2008.
- [80] Engelbracht, C. W., Gordon, K. D., Rieke, G. H., Werner, M. W., Dale, D. A., and Latter, W. B. Metallicity Effects on Mid-Infrared Colors and the 8 μm PAH Emission in Galaxies. *The Astrophysical Journal Letters*, 628(1):L29–L32, 2005.
- [81] Xie, Y. and Ho, L. C. A New Calibration of Star Formation Rate in Galaxies Based on Polycyclic Aromatic Hydrocarbon Emission. *The Astrophysical Journal*, 884(2):136, 2019.
- [82] Draine, B. T., Dale, D. A., Bendo, G., Gordon, K. D., Smith, J. D. T., Armus, L., Engelbracht, C. W., Helou, G., Kennicutt, J., R. C., Li, A., Roussel, H., Walter, F., Calzetti, D., Moustakas, J., Murphy, E. J., Rieke, G. H., Bot, C., Hollenbach, D. J., Sheth, K., and Teplitz, H. I. Dust Masses, PAH Abundances, and Starlight Intensities in the SINGS Galaxy Sample. *The Astrophysical Journal*, 663(2):866–894, 2007.
- [83] Snaith, O., Haywood, M., Di Matteo, P., Lehnert, M. D., Combes, F., Katz, D., and Gómez, A. Reconstructing the star formation history of the Milky Way disc(s) from chemical abundances. *Astronomy and Astrophysics*, 578:A87, 2015.
- [84] Fantin, N. J., Côté, P., McConnachie, A. W., Bergeron, P., Cuillandre, J.-C., Dufour, P., Gwyn, S. D. J., Ibata, R. A., and Thomas, G. F. The Mass and Age Distribution of Halo White Dwarfs in the Canada-France Imaging Survey. *The Astrophysical Journal*, 913(1):30, 2021.
- [85] Mateo, M. L. Dwarf Galaxies of the Local Group. *Annual Review of Astronomy and Astrophysics*, 36:435–506, 1998.
- [86] McQuinn, K. B. W., Skillman, E. D., Dalcanton, J. J., Dolphin, A. E., Cannon, J. M., Holtzman, J., Weisz, D. R., and Williams, B. F. Observational Constraints on the Molecular Gas Content in Nearby Starburst Dwarf Galaxies. *The Astrophysical Journal*, 751(2):127, 2012.

- [87] Weisz, D. R., Dalcanton, J. J., Williams, B. F., Gilbert, K. M., Skillman, E. D., Seth, A. C., Dolphin, A. E., McQuinn, K. B. W., Gogarten, S. M., Holtzman, J., Rosema, K., Cole, A., Karachentsev, I. D., and Zaritsky, D. The ACS Nearby Galaxy Survey Treasury. VIII. The Global Star Formation Histories of 60 Dwarf Galaxies in the Local Volume. *The Astrophysical Journal*, 739(1):5, 2011.
- [88] Shen, S., Madau, P., Conroy, C., Governato, F., and Mayer, L. The Baryon Cycle of Dwarf Galaxies: Dark, Bursty, Gas-rich Polluters. *The Astrophysical Journal*, 792(2):99, 2014.
- [89] Emami, N., Siana, B., Weisz, D. R., Johnson, B. D., Ma, X., and El-Badry, K. A Closer Look at Bursty Star Formation with $L_{H\alpha}$ and L_{UV} Distributions. *The Astrophysical Journal*, 881(1):71, 2019.
- [90] Cignoni, M., Sacchi, E., Tosi, M., Aloisi, A., Cook, D. O., Calzetti, D., Lee, J. C., Sabbi, E., Thilker, D. A., Adamo, A., Dale, D. A., Elmegreen, B. G., Gallagher, I., J. S., Grebel, E. K., Johnson, K. E., Messa, M., Smith, L. J., and Ubeda, L. Star Formation Histories of the LEGUS Dwarf Galaxies. III. The Nonbursty Nature of 23 Star-forming Dwarf Galaxies. *The Astrophysical Journal*, 887(2):112, 2019.
- [91] Roychowdhury, S., Chengalur, J. N., Chiboucas, K., Karachentsev, I. D., Tully, R. B., and Kaisin, S. S. Atomic hydrogen, star formation and feedback in the lowest mass blue compact dwarf galaxies. *Monthly Notices of Royal Astronomical Society*, 426(1):665–672, 2012.
- [92] Izotov, Y. I., Guseva, N. G., Fricke, K. J., and Henkel, C. The bursting nature of star formation in compact star-forming galaxies from the Sloan Digital Sky Survey. *Monthly Notices of Royal Astronomical Society*, 462(4):4427–4434, 2016.
- [93] Finkelstein, S. L., Bagley, M. B., Haro, P. A., Dickinson, M., Ferguson, H. C., Kartaltepe, J. S., Papovich, C., Burgarella, D., Kocevski, D. D., Huertas-Company, M., Iyer, K. G., Koekemoer, A. M., Larson, R. L., Pérez-González, P. G., Rose, C., Tacchella, S., Wilkins, S. M., Chworowsky, K., Medrano, A., Morales, A. M., Somerville, R. S., Yung, L. Y. A., Fontana, A., Giavalisco, M., Grazian, A., Grogin, N. A., Kewley, L. J., Kirkpatrick, A., Kurczynski, P., Lotz, J. M., Pentericci, L., Pirzkal, N., Ravindranath, S., Ryan, R. E., Trump, J. R., Yang, G., Almaini, O., Amorín, R. O., Annunziatella, M., Backhaus, B. E., Barro, G., Behroozi, P., Bell, E. F., Bhatawdekar, R., Bisigello, L., Bromm, V., Buat, V., Buitrago, F., Calabrò, A., Casey, C. M., Castellano, M., Chávez Ortiz, Ó. A., Ciesla, L., Cleri, N. J., Cohen, S. H., Cole, J. W., Cooke, K. C., Cooper, M. C., Cooray, A. R., Costantin, L., Cox, I. G., Croton, D., Daddi, E., Davé, R., de La Vega, A., Dekel, A., Elbaz, D., Estrada-Carpenter, V., Faber, S. M., Fernández, V., Finkelstein, K. D., Freundlich, J., Fujimoto, S., García-Argumániz, Á., Gardner, J. P., Gawiser, E., Gómez-Guijarro, C., Guo, Y., Hamblin, K., Hamilton, T. S., Hathi, N. P., Holwerda, B. W., Hirschmann, M., Hutchison, T. A., Jaskot, A. E., Jha, S. W., Jogee, S., Juneau, S., Jung, I., Kassin, S. A., Bail, A. L., Leung, G. C. K., Lucas, R. A., Magnelli, B., Mantha, K. B., Matharu, J., McGrath, E. J., McIntosh, D. H., Merlin, E., Mobasher, B., Newman, J. A., Nicholls, D. C., Pandya, V., Rafelski, M., Ronayne, K., Santini, P., Seillé, L.-M., Shah, E. A., Shen, L., Simons, R. C., Snyder, G. F., Stanway, E. R., Straughn, A. N., Teplitz, H. I., Vanderhoof, B. N., Vega-Ferrero, J., Wang, W., Weiner, B. J., Willmer, C. N. A.,

- Wuyts, S., Zavala, J. A., and Ceers Team. A Long Time Ago in a Galaxy Far, Far Away: A Candidate $z \sim 12$ Galaxy in Early JWST CEERS Imaging. *The Astrophysical Journal Letters*, 940(2):L55, 2022.
- [94] Ferrara, A., Pallottini, A., and Dayal, P. On the stunning abundance of super-early, luminous galaxies revealed by JWST. *Monthly Notices of Royal Astronomical Society*, 522(3):3986–3991, 2023.
- [95] Shalima, P., Sujatha, N. V., Murthy, J., Henry, R. C., and Sahnou, D. J. Far-ultraviolet scattering by dust in Orion. *Monthly Notices of Royal Astronomical Society*, 367(4):1686–1688, 2006.
- [96] Pradhan, A. C., Pathak, A., and Murthy, J. Far-ultraviolet Diffuse Emission from the Large Magellanic Cloud. *The Astrophysical Journal Letters*, 718(2):L141–L144, 2010.
- [97] Saikia, G., Shalima, P., Gogoi, R., and Pathak, A. Comparison of diffuse infrared and far-ultraviolet emission in the Large Magellanic Cloud: The data. *Planetary and Space Science*, 133:90–96, 2016.
- [98] Karachentsev, I. D., Makarov, D. I., and Kaisina, E. I. Updated Nearby Galaxy Catalog. *The Astronomical Journal*, 145(4):101, 2013.
- [99] Egorov, O. V., Lozinskaya, T. A., and Moiseev, A. V. Emission spectrum of ionized gas in the irregular galaxy Holmberg II. *Monthly Notices of Royal Astronomical Society*, 429(2):1450–1465, 2013.
- [100] Pilyugin, L. S., Grebel, E. K., and Kniazev, A. Y. The Abundance Properties of Nearby Late-type Galaxies. I. The Data. *The Astronomical Journal*, 147(6):131, 2014.
- [101] Sánchez-Salcedo, F. J., Hidalgo-Gómez, A. M., and Martínez-García, E. E. The inclination of the dwarf irregular galaxy Holmberg II. *Revista mexicana de astronomía y astrofísica*, 50:225–235, 2014.
- [102] Kennicutt, J., Robert C., Armus, L., Bendo, G., Calzetti, D., Dale, D. A., Draine, B. T., Engelbracht, C. W., Gordon, K. D., Grauer, A. D., Helou, G., Hollenbach, D. J., Jarrett, T. H., Kewley, L. J., Leitherer, C., Li, A., Malhotra, S., Regan, M. W., Rieke, G. H., Rieke, M. J., Roussel, H., Smith, J.-D. T., Thornley, M. D., and Walter, F. SINGS: The SIRTf Nearby Galaxies Survey. *Publications of the Astronomical Society of the Pacific*, 115(810):928–952, 2003.
- [103] Kennicutt, R. C., Calzetti, D., Aniano, G., Appleton, P., Armus, L., Beirão, P., Bolatto, A. D., Brandl, B., Crocker, A., Croxall, K., Dale, D. A., Donovan Meyer, J., Draine, B. T., Engelbracht, C. W., Galametz, M., Gordon, K. D., Groves, B., Hao, C. N., Helou, G., Hinz, J., Hunt, L. K., Johnson, B., Koda, J., Krause, O., Leroy, A. K., Li, Y., Meidt, S., Montiel, E., Murphy, E. J., Rahman, N., Rix, H. W., Roussel, H., Sandstrom, K., Sauvage, M., Schinnerer, E., Skibba, R., Smith, J. D. T., Srinivasan, S., Vigroux, L., Walter, F., Wilson, C. D., Wolfire, M., and Zibetti, S. KINGFISH—Key Insights on Nearby Galaxies: A Far-Infrared Survey with Herschel: Survey Description and Image Atlas. *Publications of the Astronomical Society of the Pacific*, 123(910):1347, 2011.

- [104] Walter, F., Brinks, E., de Blok, W. J. G., Bigiel, F., Kennicutt, J., Robert C., Thornley, M. D., and Leroy, A. THINGS: The H I Nearby Galaxy Survey. *The Astronomical Journal*, 136(6):2563–2647, 2008.
- [105] Karachentsev, I. D. and Kaisina, E. I. Dwarf Galaxies in the Local Volume. *Astrophysical Bulletin*, 74(2):111–127, 2019.
- [106] Puche, D., Westpfahl, D., Brinks, E., and Roy, J.-R. Holmberg II: A Laboratory for Studying the Violent Interstellar Medium. *The Astronomical Journal*, 103:1841, 1992.
- [107] Hodge, P., Strobel, N. V., and Kennicutt, R. C. The H II Regions of Holmberg II. *Publications of the Astronomical Society of the Pacific*, 106:309, 1994.
- [108] Egorov, O. V., Lozinskaya, T. A., Moiseev, A. V., and Shchekinov, Y. A. Complexes of triggered star formation in supergiant shell of Holmberg II. *Monthly Notices of Royal Astronomical Society*, 464(2):1833–1853, 2017.
- [109] Weisz, D. R., Skillman, E. D., Cannon, J. M., Dolphin, A. E., Kennicutt, J., Robert C., Lee, J., and Walter, F. Does Stellar Feedback Create H I Holes? A Hubble Space Telescope/Very Large Array Study of Holmberg II. *The Astrophysical Journal*, 704(2):1538–1569, 2009.
- [110] Oh, S.-H., de Blok, W. J. G., Brinks, E., Walter, F., and Kennicutt, J., Robert C. Dark and Luminous Matter in THINGS Dwarf Galaxies. *The Astronomical Journal*, 141(6):193, 2011.
- [111] Moustakas, J., Kennicutt, J., Robert C., Tremonti, C. A., Dale, D. A., Smith, J.-D. T., and Calzetti, D. Optical Spectroscopy and Nebular Oxygen Abundances of the Spitzer/SINGS Galaxies. *The Astrophysical Journal Supplement Series*, 190(2):233–266, 2010.
- [112] Tandon, S. N., Subramaniam, A., Girish, V., Postma, J., Sankarasubramanian, K., Sriram, S., Stalin, C. S., Mondal, C., Sahu, S., Joseph, P., Hutchings, J., Ghosh, S. K., Barve, I. V., George, K., Kamath, P. U., Kathiravan, S., Kumar, A., Lancelot, J. P., Leahy, D., Mahesh, P. K., Mohan, R., Nagabhushana, S., Pati, A. K., Kameswara Rao, N., Sreedhar, Y. H., and Sreekumar, P. In-orbit Calibrations of the Ultraviolet Imaging Telescope. *The Astronomical Journal*, 154(3):128, 2017.
- [113] Rahna, P. T., Murthy, J., Safonova, M., Sutaria, F., Gudennavar, S. B., and Bubbly, S. G. Investigating the in-flight performance of the UVIT payload on AstroSat. *Monthly Notices of Royal Astronomical Society*, 471(3):3028–3035, 2017.
- [114] Vinokurov, A., Atapin, K., Bordoloi, O. P., Sarkisyan, A., Kashyap, U., Chakraborty, M., Rahna, P. T., Kostenkov, A., Solovyeva, Y., Fabrika, S., Safonova, M., Gogoi, R., Sutaria, F., and Murthy, J. Simultaneous X-ray/UV Observations of Ultraluminous X-ray Source Holmberg II X-1 with Indian Space Mission Astrosat. *Astrophysical Bulletin*, 77(3):231–245, 2022.
- [115] Murthy, J., Rahna, P. T., Safonova, M., Sutaria, F., Gudennavar, S. B., and Bubbly, S. G. JUDE: An Ultraviolet Imaging Telescope pipeline. Astrophysics Source Code Library, record ascl:1607.007, 2016.

- [116] Rahna, P. T., Murthy, J., and Safonova, M. JUDE (Jayant's UVIT Data Explorer) pipeline user manual. *Journal of Astrophysics and Astronomy*, 42(2):35, 2021.
- [117] Arabas, S., Schellens, M., Coulais, A., Gales, J., and Messmer, P. GNU Data Language (GDL) - a free and open-source implementation of IDL. In *EGU General Assembly Conference Abstracts*, EGU General Assembly Conference Abstracts, 924. 2010.
- [118] Stetson, P. B. DAOPHOT: A Computer Program for Crowded-Field Stellar Photometry. *Publications of the Astronomical Society of the Pacific*, 99:191, 1987.
- [119] Murthy, J., Rahna, P. T., Sutaria, F., Safonova, M., Gudennavar, S. B., and Bubbly, S. G. JUDE: An Ultraviolet Imaging Telescope pipeline. *Astronomy and Computing*, 20:120–127, 2017.
- [120] Henry, R. C., Murthy, J., Overduin, J., and Tyler, J. The mystery of the cosmic diffuse ultraviolet background radiation. *The Astrophysical Journal*, 798(1):14, 2014.
- [121] Stewart, S. G., Fanelli, M. N., Byrd, G. G., Hill, J. K., Westpfahl, D. J., Cheng, K.-P., O'Connell, R. W., Roberts, M. S., Neff, S. G., Smith, A. M., and Stecher, T. P. Star Formation Triggering Mechanisms in Dwarf Galaxies: The Far-Ultraviolet, H α , and H I Morphology of Holmberg II. *The Astrophysical Journal*, 529(1):201–218, 2000.
- [122] Cignoni, M., Sacchi, E., Aloisi, A., Tosi, M., Calzetti, D., Lee, J. C., Sabbi, E., Adamo, A., Cook, D. O., Dale, D. A., Elmegreen, B. G., Gallagher, I., J. S., Gouliermis, D. A., Grasha, K., Grebel, E. K., Hunter, D. A., Johnson, K. E., Messa, M., Smith, L. J., Thilker, D. A., Ubeda, L., and Whitmore, B. C. Star Formation Histories of the LEGUS Dwarf Galaxies. I. Recent History of NGC 1705, NGC 4449, and Holmberg II. *The Astrophysical Journal*, 856(1):62, 2018.
- [123] Kaaret, P., Feng, H., and Roberts, T. P. Ultraluminous X-Ray Sources. *Annual Review of Astronomy and Astrophysics*, 55:303–341, 2017.
- [124] Fabrika, S. N., Atapin, K. E., Vinokurov, A. S., and Sholukhova, O. N. Ultraluminous X-Ray Sources. *Astrophysical Bulletin*, 76(1):6–38, 2021.
- [125] Bachetti, M., Harrison, F. A., Walton, D. J., Grefenstette, B. W., Chakrabarty, D., Fürst, F., Barret, D., Beloborodov, A., Boggs, S. E., Christensen, F. E., Craig, W. W., Fabian, A. C., Hailey, C. J., Hornschemeier, A., Kaspi, V., Kulkarni, S. R., Maccarone, T., Miller, J. M., Rana, V., Stern, D., Tendulkar, S. P., Tomsick, J., Webb, N. A., and Zhang, W. W. An ultraluminous X-ray source powered by an accreting neutron star. *Nature*, 514(7521):202–204, 2014.
- [126] Poutanen, J., Lipunova, G., Fabrika, S., Butkevich, A. G., and Abolmasov, P. Super-critically accreting stellar mass black holes as ultraluminous X-ray sources. *Monthly Notices of Royal Astronomical Society*, 377:1187–1194, 2007.
- [127] Pinto, C., Middleton, M. J., and Fabian, A. C. Resolved atomic lines reveal outflows in two ultraluminous X-ray sources. *Nature*, 533:64–67, 2016.
- [128] Fabrika, S., Ueda, Y., Vinokurov, A., Sholukhova, O., and Shidatsu, M. Supercritical accretion disks in ultraluminous X-ray sources and SS 433. *Nature Physics*, 11(7):551–553, 2015.

- [129] Kostenkov, A., Vinokurov, A., Solovyeva, Y., Atapin, K., and Fabrika, S. Modeling of Extended Atmospheres with Temperatures below 40000 K. *Astrophysical Bulletin*, 75(2):182–190, 2020.
- [130] Liu, J.-F., Bregman, J. N., Bai, Y., Justham, S., and Crowther, P. Puzzling accretion onto a black hole in the ultraluminous X-ray source M 101 ULX-1. *Nature*, 503(7477):500–503, 2013.
- [131] Motch, C., Pakull, M. W., Soria, R., Grisé, F., and Pietrzyński, G. A mass of less than 15 solar masses for the black hole in an ultraluminous X-ray source. *Nature*, 514:198–201, 2014.
- [132] Heida, M., Torres, M. A. P., Jonker, P. G., Servillat, M., Repetto, S., Roberts, T. P., Walton, D. J., Moon, D. S., and Harrison, F. A. Discovery of a red supergiant counterpart to RX J004722.4-252051, a ULX in NGC 253. *Monthly Notices of Royal Astronomical Society*, 453(4):3510–3518, 2015.
- [133] Heida, M., Jonker, P. G., Torres, M. A. P., Roberts, T. P., Walton, D. J., Moon, D. S., Stern, D., and Harrison, F. A. Keck/MOSFIRE spectroscopy of five ULX counterparts. *Monthly Notices of Royal Astronomical Society*, 459(1):771–778, 2016.
- [134] Heida, M., Lau, R. M., Davies, B., Brightman, M., Fürst, F., Grefenstette, B. W., Kennea, J. A., Trammer, F., Walton, D. J., and Harrison, F. A. Discovery of a Red Supergiant Donor Star in SN2010da/NGC 300 ULX-1. *The Astrophysical Journal Letters*, 883(2):L34, 2019.
- [135] López, K. M., Heida, M., Jonker, P. G., Torres, M. A. P., Roberts, T. P., Walton, D. J., Moon, D. S., and Harrison, F. A. NIR counterparts to ULXs (III): completing the photometric survey and selected spectroscopic results. *Monthly Notices of Royal Astronomical Society*, 497(1):917–932, 2020.
- [136] Tao, L., Kaaret, P., Feng, H., and Grisé, F. The Nature of the UV/Optical Emission of the Ultraluminous X-Ray Source in Holmberg II. *The Astrophysical Journal*, 750(2):110, 2012.
- [137] Grisé, F., Kaaret, P., Corbel, S., Feng, H., Cseh, D., and Tao, L. Optical Emission of the Ultraluminous X-Ray Source NGC 5408 X-1: Donor Star or Irradiated Accretion Disk? *The Astrophysical Journal*, 745(2):123, 2012.
- [138] Vinokurov, A., Fabrika, S., and Atapin, K. Ultra-luminous X-ray sources as supercritical accretion disks: Spectral energy distributions. *Astrophysical Bulletin*, 68:139–153, 2013.
- [139] Avdan, S., Vinokurov, A., Fabrika, S., Atapin, K., Avdan, H., Akyuz, A., Sholukhova, O., Aksaker, N., and Valeev, A. Optical counterparts of two ULXs in NGC 5474 and NGC 3627 (M 66). *Monthly Notices of Royal Astronomical Society*, 455(1):L91–L95, 2016.
- [140] Avdan, S., Akyuz, A., Vinokurov, A., Aksaker, N., Avdan, H., Fabrika, S., Valeev, A., Akkaya-Oralhan, I., and Balman, Ş. Optical Counterparts of ULXs and Their Host Environments in NGC 4490/4485. *The Astrophysical Journal*, 875(1):68, 2019.

- [141] Vinokurov, A., Fabrika, S., and Atapin, K. Optical Counterparts of Ultraluminous X-Ray Sources NGC 4559 X-10 and NGC 4395 ULX-1. *The Astrophysical Journal*, 854:176, 2018.
- [142] Gierliński, M., Done, C., and Page, K. Reprocessing of X-rays in the outer accretion disc of the black hole binary XTE J1817-330. *Monthly Notices of Royal Astronomical Society*, 392(3):1106–1114, 2009.
- [143] Vinokurov, A., Atapin, K., and Solovyeva, Y. Optical Counterpart to the Ultraluminous X-Ray Source in the UGC 6456 Galaxy. *The Astrophysical Journal Letters*, 893(2):L28, 2020.
- [144] Kajava, J. J. E., Poutanen, J., Farrell, S. A., Grisé, F., and Kaaret, P. Evolution of the spectral curvature in the ultraluminous X-ray source Holmberg II X-1. *Monthly Notices of Royal Astronomical Society*, 422(2):990–996, 2012.
- [145] Middleton, M. J., Heil, L., Pintore, F., Walton, D. J., and Roberts, T. P. A spectral-timing model for ULXs in the supercritical regime. *Monthly Notices of Royal Astronomical Society*, 447(4):3243–3263, 2015.
- [146] Pinto, C., Alston, W., Soria, R., Middleton, M. J., Walton, D. J., Sutton, A. D., Fabian, A. C., Earnshaw, H., Urquhart, R., Kara, E., and Roberts, T. P. From ultraluminous X-ray sources to ultraluminous supersoft sources: NGC 55 ULX, the missing link. *Monthly Notices of Royal Astronomical Society*, 468(3):2865–2883, 2017.
- [147] Walton, D. J., Fürst, F., Heida, M., Harrison, F. A., Barret, D., Stern, D., Bachetti, M., Brightman, M., Fabian, A. C., and Middleton, M. J. Evidence for Pulsar-like Emission Components in the Broadband ULX Sample. *The Astrophysical Journal*, 856:128, 2018.
- [148] Kawashima, T., Ohsuga, K., Mineshige, S., Yoshida, T., Heinzeller, D., and Matsumoto, R. Comptonized Photon Spectra of Supercritical Black Hole Accretion Flows with Application to Ultraluminous X-Ray Sources. *The Astrophysical Journal*, 752(1):18, 2012.
- [149] Kostenkov, A., Vinokurov, A., and Solovyeva, Y. Determination of the Parameters of ULXs with Model Grids of Extended Atmospheres. In Romanyuk, I. I., Yakunin, I. A., Valeev, A. F., and Kudryavtsev, D. O., editors, *Ground-Based Astronomy in Russia. 21st Century*, 242–243. 2020.
- [150] van Paradijs, J. and McClintock, J. E. Absolute visual magnitudes of low-mass X-ray binaries. *Astronomy and Astrophysics*, 290:133–136, 1994.
- [151] Shakura, N. I. and Sunyaev, R. A. Black holes in binary systems. Observational appearance. *Astronomy and Astrophysics*, 24:337–355, 1973.
- [152] Eggleton, P. P. Approximations to the radii of Roche lobes. *The Astrophysical Journal*, 268:368–369, 1983.
- [153] Straizys, V. and Kuriliene, G. Fundamental Stellar Parameters Derived from the Evolutionary Tracks. *Astrophysics and Space Science*, 80(2):353–368, 1981.

- [154] Zhang, E. H., Robinson, E. L., and Nather, R. E. The Eclipses of Cataclysmic Variables. I. HT Cassiopeiae. *The Astrophysical Journal*, 305:740, 1986.
- [155] Walter, F., Cannon, J. M., Roussel, H., Bendo, G. J., Calzetti, D., Dale, D. A., Draine, B. T., Helou, G., Kennicutt, J., Robert C., Moustakas, J., Rieke, G. H., Armus, L., Engelbracht, C. W., Gordon, K., Hollenbach, D. J., Lee, J., Li, A., Meyer, M. J., Murphy, E. J., Regan, M. W., Smith, J.-D. T., Brinks, E., de Blok, W. J. G., Bigiel, F., and Thornley, M. D. Dust and Atomic Gas in Dwarf Irregular Galaxies of the M81 Group: The SINGS and THINGS View. *The Astrophysical Journal*, 661(1):102–114, 2007.
- [156] Wiebe, D. S., Khramtsova, M. S., Egorov, O. V., and Lozinskaya, T. A. Dust evolution in the dwarf galaxy Holmberg II. *Astronomy Letters*, 40(5):278–290, 2014.
- [157] Madden, S. C., Galliano, F., Jones, A. P., and Sauvage, M. ISM properties in low-metallicity environments. *Astronomy and Astrophysics*, 446(3):877–896, 2006.
- [158] Kahre, L., Walterbos, R. A., Kim, H., Thilker, D., Calzetti, D., Lee, J. C., Sabbi, E., Ubeda, L., Aloisi, A., Cignoni, M., Cook, D. O., Dale, D. A., Elmegreen, B. G., Elmegreen, D. M., Fumagalli, M., Gallagher, I., J. S., Gouliermis, D. A., Grasha, K., Grebel, E. K., Hunter, D. A., Sacchi, E., Smith, L. J., Tosi, M., Adamo, A., Andrews, J. E., Ashworth, G., Bright, S. N., Brown, T. M., Chandar, R., Christian, C., de Mink, S. E., Dobbs, C., Evans, A. S., Herrero, A., Johnson, K. E., Kennicutt, R. C., Krumholz, M. R., Messa, M., Nair, P., Nota, A., Pellerin, A., Ryon, J. E., Schaerer, D., Shabani, F., Van Dyk, S. D., Whitmore, B. C., and Wofford, A. Extinction Maps and Dust-to-gas Ratios in Nearby Galaxies with LEGUS. *The Astrophysical Journal*, 855(2):133, 2018.
- [159] Maurice, K. and Dickinson, G. J. Rank correlation methods. *London: Edward Arnold*, 1990.
- [160] Kennicutt, J., Robert C., Armus, L., Bendo, G., Calzetti, D., Dale, D. A., Draine, B. T., Engelbracht, C. W., Gordon, K. D., Grauer, A. D., Helou, G., Hollenbach, D. J., Jarrett, T. H., Kewley, L. J., Leitherer, C., Li, A., Malhotra, S., Regan, M. W., Rieke, G. H., Rieke, M. J., Roussel, H., Smith, J.-D. T., Thornley, M. D., and Walter, F. SINGS: The SIRTf Nearby Galaxies Survey. *Publications of the Astronomical Society of the Pacific*, 115(810):928–952, 2003.
- [161] Kennicutt, R. C., Calzetti, D., Aniano, G., Appleton, P., Armus, L., Beirão, P., Bolatto, A. D., Brandl, B., Crocker, A., Croxall, K., Dale, D. A., Donovan Meyer, J., Draine, B. T., Engelbracht, C. W., Galametz, M., Gordon, K. D., Groves, B., Hao, C. N., Helou, G., Hinz, J., Hunt, L. K., Johnson, B., Koda, J., Krause, O., Leroy, A. K., Li, Y., Meidt, S., Montiel, E., Murphy, E. J., Rahman, N., Rix, H. W., Roussel, H., Sandstrom, K., Sauvage, M., Schinnerer, E., Skibba, R., Smith, J. D. T., Srinivasan, S., Vigroux, L., Walter, F., Wilson, C. D., Wolfire, M., and Zibetti, S. KINGFISH—Key Insights on Nearby Galaxies: A Far-Infrared Survey with Herschel: Survey Description and Image Atlas. *Publications of the Astronomical Society of the Pacific*, 123(910):1347, 2011.
- [162] Poglitsch, A., Waelkens, C., Geis, N., Feuchtgruber, H., Vandenbussche, B., Rodriguez, L., Krause, O., Renotte, E., van Hoof, C., Saraceno, P., Cepa, J., Kerschbaum, F.,

- Agnèse, P., Ali, B., Altieri, B., Andreani, P., Augueres, J. L., Balog, Z., Barl, L., Bauer, O. H., Belbachir, N., Benedettini, M., Billot, N., Boulade, O., Bischof, H., Blommaert, J., Callut, E., Cara, C., Cerulli, R., Cesarsky, D., Contursi, A., Creten, Y., De Meester, W., Doublier, V., Doumayrou, E., Duband, L., Exter, K., Genzel, R., Gillis, J. M., Grözinger, U., Henning, T., Herreros, J., Huygen, R., Inguscio, M., Jakob, G., Jamar, C., Jean, C., de Jong, J., Katterloher, R., Kiss, C., Klaas, U., Lemke, D., Lutz, D., Madden, S., Marquet, B., Martignac, J., Mazy, A., Merken, P., Montfort, F., Morbidelli, L., Müller, T., Nielbock, M., Okumura, K., Orfei, R., Ottensamer, R., Pezzuto, S., Popesso, P., Putzeys, J., Regibo, S., Reveret, V., Royer, P., Sauvage, M., Schreiber, J., Stegmaier, J., Schmitt, D., Schubert, J., Sturm, E., Thiel, M., Tofani, G., Vavrek, R., Wetzstein, M., Wieprecht, E., and Wiezorrek, E. The Photodetector Array Camera and Spectrometer (PACS) on the Herschel Space Observatory. *Astronomy and Astrophysics*, 518:L2, 2010.
- [163] Helou, G., Roussel, H., Appleton, P., Frayer, D., Stolovy, S., Storrie-Lombardi, L., Hurt, R., Lowrance, P., Makovoz, D., Masci, F., Surace, J., Gordon, K. D., Alonso-Herrero, A., Engelbracht, C. W., Misselt, K., Rieke, G., Rieke, M., Willner, S. P., Pahre, M., Ashby, M. L. N., Fazio, G. G., and Smith, H. A. The Anatomy of Star Formation in NGC 300. *The Astrophysical Journal Supplement Series*, 154(1):253–258, 2004.
- [164] Wu, H., Cao, C., Hao, C.-N., Liu, F.-S., Wang, J.-L., Xia, X.-Y., Deng, Z.-G., and Young, C. K.-S. PAH and Mid-Infrared Luminosities as Measures of Star Formation Rate in Spitzer First Look Survey Galaxies. *The Astrophysical Journal Letters*, 632(2):L79–L82, 2005.
- [165] Zhu, Y.-N., Wu, H., Cao, C., and Li, H.-N. Correlations between Mid-Infrared, Far-Infrared, $H\alpha$, and FUV Luminosities for Spitzer SWIRE Field Galaxies. *The Astrophysical Journal*, 686(1):155–171, 2008.
- [166] Sujatha, N. V., Murthy, J., Shalima, P., and Henry, R. C. Measurement of Dust Optical Properties in the Coalsack Nebula. *The Astrophysical Journal*, 665(1):363–368, 2007.
- [167] Saikia, G., Shalima, P., and Gogoi, R. Modelling the diffuse dust emission around Orion. *Monthly Notices of Royal Astronomical Society*, 476(4):4690–4696, 2018.
- [168] Henyey, L. G. and Greenstein, J. L. Diffuse radiation in the Galaxy. *The Astrophysical Journal*, 93:70–83, 1941.
- [169] Hunter, D. A. and Gallagher, I., J. S. Star-forming properties and histories of dwarf irregular galaxies : down but not out. *The Astrophysical Journal Supplement Series*, 58:533–560, 1985.
- [170] Gordon, K. D., Clayton, G. C., Misselt, K. A., Landolt, A. U., and Wolff, M. J. A Quantitative Comparison of the Small Magellanic Cloud, Large Magellanic Cloud, and Milky Way Ultraviolet to Near-Infrared Extinction Curves. *The Astrophysical Journal*, 594(1):279–293, 2003.
- [171] Draine, B. T. Scattering by Interstellar Dust Grains. I. Optical and Ultraviolet. *The Astrophysical Journal*, 598(2):1017–1025, 2003.

- [172] Roman-Duval, J., Jenkins, E. B., Tchernyshyov, K., Clark, C. J. R., De Cia, A., Gordon, K. D., Hamanowicz, A., Lebouteiller, V., Rafelski, M., Sandstrom, K., Werk, J., and Yanchulova Merica-Jones, P. METAL: The Metal Evolution, Transport, and Abundance in the Large Magellanic Cloud Hubble Program. IV. Calibration of Dust Depletions versus Abundance Ratios in the Milky Way and Magellanic Clouds and Application to Damped Ly α Systems. *The Astrophysical Journal*, 935(2):105, 2022.
- [173] Izotov, Y. I., Guseva, N. G., Fricke, K. J., Henkel, C., Schaerer, D., and Thuan, T. X. Low-redshift compact star-forming galaxies as analogues of high-redshift star-forming galaxies. *Astronomy and Astrophysics*, 646:A138, 2021.
- [174] Hildebrand, R. H. The determination of cloud masses and dust characteristics from submillimetre thermal emission. *Quarterly Journal of the Royal Astronomical Society*, 24:267–282, 1983.
- [175] Dwek, E. and Arendt, R. G. Dust-gas interactions and the infrared emission from hot astrophysical plasmas. *Annual Review of Astronomy and Astrophysics*, 30:11–50, 1992.
- [176] Draine, B. T. and Lee, H. M. Optical Properties of Interstellar Graphite and Silicate Grains. *The Astrophysical Journal*, 285:89, 1984.
- [177] Cortese, L., Ciesla, L., Boselli, A., Bianchi, S., Gomez, H., Smith, M. W. L., Bendo, G. J., Eales, S., Pohlen, M., Baes, M., Corbelli, E., Davies, J. I., Hughes, T. M., Hunt, L. K., Madden, S. C., Pierini, D., di Serego Alighieri, S., Zibetti, S., Boquien, M., Clements, D. L., Cooray, A., Galametz, M., Magrini, L., Pappalardo, C., Spinoglio, L., and Vlahakis, C. The dust scaling relations of the Herschel Reference Survey. *Astronomy and Astrophysics*, 540:A52, 2012.
- [178] Jura, M. Dust around First-Ascent Red Giants. *The Astrophysical Journal*, 515(2):706–711, 1999.
- [179] Lagadec, E., Mékarnia, D., de Freitas Pacheco, J. A., and Dougados, C. Dust temperature and density profiles in the envelopes of AGB and post-AGB carbon stars from mid-infrared observations. *Astronomy and Astrophysics*, 433(2):553–564, 2005.
- [180] Uzpen, B., Kobulnicky, H. A., Semler, D. R., Bensby, T., and Thom, C. A GLIMPSE into the Nature of Galactic Mid-IR Excesses. *The Astrophysical Journal*, 685(2):1157–1182, 2008.
- [181] Draine, B. T. *Physics of the Interstellar and Intergalactic Medium*. 2011.
- [182] Egorov, O. V., Kreckel, K., Sandstrom, K. M., Leroy, A. K., Glover, S. C. O., Groves, B., Kruijssen, J. M. D., Barnes, A. T., Belfiore, F., Bigiel, F., Blanc, G. A., Boquien, M., Cao, Y., Chastenet, J., Chevance, M., Congiu, E., Dale, D. A., Emsellem, E., Grasha, K., Klessen, R. S., Larson, K. L., Liu, D., Murphy, E. J., Pan, H.-A., Pessa, I., Pety, J., Rosolowsky, E., Scheuermann, F., Schinnerer, E., Sutter, J., Thilker, D. A., Watkins, E. J., and Williams, T. G. PHANGS-JWST First Results: Destruction of the PAH Molecules in H II Regions Probed by JWST and MUSE. *The Astrophysical Journal Letters*, 944(2):L16, 2023.

- [183] Compiègne, M., Abergel, A., Verstraete, L., and Habart, E. Dust processing in photodissociation regions. Mid-IR emission modelling. *Astronomy and Astrophysics*, 491(3):797–807, 2008.
- [184] Feast, M. The Distance to the Large Magellanic Cloud; A Critical Review. In Chu, Y. H., Suntzeff, N., Hesser, J., and Bohlender, D., editors, *New Views of the Magellanic Clouds*, volume 190, 542. 1999.
- [185] Stephens, I. W., Evans, J. M., Xue, R., Chu, Y.-H., Gruendl, R. A., and Segura-Cox, D. M. Spitzer Observations of Dust Emission from H II Regions in the Large Magellanic Cloud. *The Astrophysical Journal*, 784(2):147, 2014.
- [186] Putman, M. E., Gibson, B. K., Staveley-Smith, L., Banks, G., Barnes, D. G., Bhatla, R., Disney, M. J., Ekers, R. D., Freeman, K. C., Haynes, R. F., Henning, P., Jerjen, H., Kilborn, V., Koribalski, B., Knezek, P., Malin, D. F., Mould, J. R., Oosterloo, T., Price, R. M., Ryder, S. D., Sadler, E. M., Stewart, I., Stootman, F., Vaile, R. A., Webster, R. L., and Wright, A. E. Tidal disruption of the Magellanic Clouds by the Milky Way. *Nature*, 394(6695):752–754, 1998.
- [187] Fitzpatrick, E. L. and Savage, B. D. International Ultraviolet Explorer observations of stars in 30 Doradus : extinction and stellar continua. *The Astrophysical Journal*, 279:578–595, 1984.
- [188] Bernard, J.-P., Reach, W. T., Paradis, D., Meixner, M., Paladini, R., Kawamura, A., Onishi, T., Vijh, U., Gordon, K., Indebetouw, R., Hora, J. L., Whitney, B., Blum, R., Meade, M., Babler, B., Churchwell, E. B., Engelbracht, C. W., For, B.-Q., Misselt, K., Leitherer, C., Cohen, M., Boulanger, F., Frogel, J. A., Fukui, Y., Gallagher, J., Gorjian, V., Harris, J., Kelly, D., Latter, W. B., Madden, S., Markwick-Kemper, C., Mizuno, A., Mizuno, N., Mould, J., Nota, A., Oey, M. S., Olsen, K., Panagia, N., Perez-Gonzalez, P., Shibai, H., Sato, S., Smith, L., Staveley-Smith, L., Tielens, A. G. G. M., Ueta, T., Van Dyk, S., Volk, K., Werner, M., and Zaritsky, D. Spitzer Survey of the Large Magellanic Cloud, Surveying the Agents of a Galaxy’s Evolution (sage). IV. Dust Properties in the Interstellar Medium. *The Astronomical Journal*, 136(3):919–945, 2008.
- [189] Meixner, M., Gordon, K. D., Indebetouw, R., Hora, J. L., Whitney, B., Blum, R., Reach, W., Bernard, J.-P., Meade, M., Babler, B., Engelbracht, C. W., For, B.-Q., Misselt, K., Vihj, U., Leitherer, C., Cohen, M., Churchwell, E. B., Boulanger, F., Frogel, J. A., Fukui, Y., Gallagher, J., Gorjian, V., Harris, J., Kelly, D., Kawamura, A., Kim, S., Latter, W. B., Madden, S., Markwick-Kemper, C., Mizuno, A., Mizuno, N., Mould, J., Nota, A., Oey, M. S., Olsen, K., Onishi, T., Paladini, R., Panagia, N., Perez-Gonzalez, P., Shibai, H., Sato, S., Smith, L., Staveley-Smith, L., Tielens, A. G. G. M., Ueta, T., van Dyk, S., Volk, K., Werner, M., and Zaritsky, D. Spitzer Survey of the Large Magellanic Cloud: Surveying the Agents of a Galaxy’s Evolution (SAGE). I. Overview and Initial Results. *The Astronomical Journal*, 132(6):2268–2288, 2006.
- [190] Chevance, M., Madden, S. C., Fischer, C., Vacca, W. D., Lebouteiller, V., Fadda, D., Galliano, F., Indebetouw, R., Kruijssen, J. M. D., Lee, M.-Y., Poglitsch, A., Polles, F. L., Cormier, D., Hony, S., Iserlohe, C., Krabbe, A., Meixner, M., Sabbi, E., and Zinnecker, H. The CO-dark molecular gas mass in 30 Doradus. *Monthly Notices of Royal Astronomical Society*, 494(4):5279–5292, 2020.

- [191] Crowther, P. A. Massive Stars in the Tarantula Nebula: A Rosetta Stone for Extragalactic Supergiant HII Regions. *Galaxies*, 7(4):88, 2019.
- [192] Nayak, O., Green, A., Hirschauer, A. S., Indebetouw, R., Meixner, M., Wong, T., Chevance, M., De Marchi, G., Lebouteiller, V., Lee, M.-Y., Looney, L. W., Madden, S. C., Roman-Duval, J., Fukui, Y., Hacar, A., Jameson, K. E., Kalari, V., Oudshoorn, L., Rubio, M., and Sabbi, E. Massive Star Formation in the Tarantula Nebula. *The Astrophysical Journal*, 944(1):26, 2023.
- [193] Tram, L. N., Hoang, T., Lopez-Rodriguez, E., Coudé, S., Soam, A., Andersson, B. G., Lee, M.-Y., Bonne, L., Vacca, W. D., and Lee, H. SOFIA Observations of 30 Doradus. I. Far-infrared Dust Polarization and Implications for Grain Alignment and Disruption by Radiative Torques. *The Astrophysical Journal*, 923(1):130, 2021.
- [194] Tram, L. N., Bonne, L., Hu, Y., Lopez-Rodriguez, E., Guerra, J. A., Lesaffre, P., Gusdorf, A., Hoang, T., Lee, M.-Y., Lazarian, A., Andersson, B. G., Coudé, S., Soam, A., Vacca, W. D., Lee, H., and Gordon, M. SOFIA Observations of 30 Doradus. II. Magnetic Fields and Large-scale Gas Kinematics. *The Astrophysical Journal*, 946(1):8, 2023.
- [195] Fahrion, K. and De Marchi, G. Extending the extinction law in 30 Doradus to the infrared with JWST. *Astronomy and Astrophysics*, 671:L14, 2023.
- [196] Paradis, D., Mény, C., Demyk, K., Noriega-Crespo, A., and Ristorcelli, I. Toward a better understanding of the mid-infrared emission in the Large Magellanic Cloud. *Astronomy and Astrophysics*, 674:A141, 2023.
- [197] Brands, S. A., de Koter, A., Bestenlehner, J. M., Crowther, P. A., Kaper, L., Caballero-Nieves, S. M., and Gräfener, G. Extinction towards the cluster R136 in the Large Magellanic Cloud. An extinction law from the near-infrared to the ultraviolet. *Astronomy and Astrophysics*, 673:A132, 2023.
- [198] De Marchi, G. and Panagia, N. The extinction law inside the 30 Doradus nebula. *Monthly Notices of Royal Astronomical Society*, 445(1):93–106, 2014.
- [199] Cohen, R. S., Dame, T. M., Garay, G., Montani, J., Rubio, M., and Thaddeus, P. A Complete Survey of the Large Magellanic Cloud. *The Astrophysical Journal Letters*, 331:L95, 1988.
- [200] Tatton, B. L., van Loon, J. T., Cioni, M. R., Clementini, G., Emerson, J. P., Girardi, L., de Grijs, R., Groenewegen, M. A. T., Gullieuszik, M., Ivanov, V. D., Moretti, M. I., Ripepi, V., and Rubele, S. The VMC survey. VII. Reddening map of the 30 Doradus field and the structure of the cold interstellar medium. *Astronomy and Astrophysics*, 554:A33, 2013.
- [201] Crowther, P. A., Castro, N., Evans, C., Vink, J., Melnick, J., and Selman, F. Dissecting the Core of the Tarantula Nebula with MUSE. *arXiv e-prints*, arXiv:1801.00855, 2018.
- [202] Fitzpatrick, E. L. Interstellar extinction variations in the Large Magellanic Cloud. *The Astrophysical Journal*, 299:219–235, 1985.

- [203] Koornneef, J. The gas to dust ratio and the near-infrared extinction law in the Large Magellanic Cloud. *Astronomy and Astrophysics*, 107:247–251, 1982.
- [204] Fitzpatrick, E. L. and Walborn, N. R. Observations of SK -69 203 and the Interstellar Extinction Toward SN 1987A. *The Astronomical Journal*, 99:1483, 1990.
- [205] HI4PI Collaboration, Ben Bekhti, N., Flöer, L., Keller, R., Kerp, J., Lenz, D., Winkel, B., Bailin, J., Calabretta, M. R., Dedes, L., Ford, H. A., Gibson, B. K., Haud, U., Janowiecki, S., Kalberla, P. M. W., Lockman, F. J., McClure-Griffiths, N. M., Murphy, T., Nakanishi, H., Pisano, D. J., and Staveley-Smith, L. HI4PI: A full-sky H I survey based on EBHIS and GASS. *Astronomy and Astrophysics*, 594:A116, 2016.
- [206] Haud, U. Gaussian decomposition of the Leiden/Dwingeloo survey. I. Decomposition algorithm. *Astronomy and Astrophysics*, 364:83–101, 2000.
- [207] Kalberla, P. M. W., Kerp, J., and Haud, U. H I filaments are cold and associated with dark molecular gas. HI4PI-based estimates of the local diffuse CO-dark H₂ distribution. *Astronomy and Astrophysics*, 639:A26, 2020.
- [208] Kalberla, P. M. W. and Haud, U. GASS: The Parkes Galactic All-Sky Survey. Update: improved correction for instrumental effects and new data release. *Astronomy and Astrophysics*, 578:A78, 2015.
- [209] Bajaja, E., Arnal, E. M., Larrarte, J. J., Morras, R., Pöppel, W. G. L., and Kalberla, P. M. W. A high sensitivity HI survey of the sky at $\delta \leq -25^\circ$. Final data release. *Astronomy and Astrophysics*, 440(2):767–773, 2005.
- [210] Kalberla, P. M. W., Burton, W. B., Hartmann, D., Arnal, E. M., Bajaja, E., Morras, R., and Pöppel, W. G. L. The Leiden/Argentine/Bonn (LAB) Survey of Galactic HI. Final data release of the combined LDS and IAR surveys with improved stray-radiation corrections. *Astronomy and Astrophysics*, 440(2):775–782, 2005.
- [211] Castelli, F. and Kurucz, R. L. New Grids of ATLAS9 Model Atmospheres. In Piskunov, N., Weiss, W. W., and Gray, D. F., editors, *Modelling of Stellar Atmospheres*, volume 210, A20. 2003.
- [212] Sujatha, N. V., Chakraborty, P., Murthy, J., and Henry, R. C. A model of the stellar radiation field in the UV. *Bulletin of the Astronomical Society of India*, 32(3):151, 2004.
- [213] De Marchi, G., Panagia, N., Sabbi, E., Lennon, D., Anderson, J., Marel, R. v. d., Cignoni, M., Grebel, E. K., Larsen, S., Zaritsky, D., Zeidler, P., Gouliermis, D., and Aloisi, A. Erratum: Hubble Tarantula Treasury Project - IV. The extinction law. *Monthly Notices of Royal Astronomical Society*, 458(2):2061–2061, 2016.
- [214] McCray, R. and Fransson, C. The Remnant of Supernova 1987A. *Annual Review of Astronomy and Astrophysics*, 54:19–52, 2016.
- [215] Chandrasekhar, S. *Radiative transfer*. Courier Corporation, 2013.

- [216] Zubko, V. G. and Laor, A. The Spectral Signature of Dust Scattering and Polarization in the Near-Infrared to Far-Ultraviolet. I. Optical Depth and Geometry Effects. *The Astrophysical Journal Supplement Series*, 128(1):245–269, 2000.
- [217] Goicoechea, J. R. and Le Bourlot, J. The penetration of Far-UV radiation into molecular clouds. *Astronomy and Astrophysics*, 467(1):1–14, 2007.
- [218] Henry, R. C. The diffuse ultraviolet background radiation. *Memorie della Societa Astronomica Italiana*, 70:825–830, 1999.
- [219] Bowyer, S. The cosmic far ultraviolet background. *Annual Review of Astronomy and Astrophysics*, 29:59–88, 1991.
- [220] Murthy, J. Observations of the near and far ultraviolet background. *Astrophysics and Space Science*, 320(1-3):21–26, 2009.
- [221] Holberg, J. B. Spectra of the far ultraviolet background shortward of 1200- \AA from voyager-2. In Bowyer, S. and Leinert, C., editors, *The Galactic and Extragalactic Background Radiation*, volume 139, 220. 1990.
- [222] Schiminovich, D., Friedman, P. G., Martin, C., and Morrissey, P. F. The Narrowband Ultraviolet Imaging Experiment for Wide-Field Surveys. I. Dust-scattered Continuum. *The Astrophysical Journal Letters*, 563(2):L161–L164, 2001.
- [223] Sasseen, T. P. and Deharveng, J. M. Ultraviolet Background Radiation and Scattered Light from Galactic Dust. *The Astrophysical Journal*, 469:691, 1996.
- [224] Murthy, J. GALEX Diffuse Observations of the Sky: The Data. *The Astrophysical Journal Supplement Series*, 213(2):32, 2014.
- [225] Hamden, E. T., Schiminovich, D., and Seibert, M. The Diffuse Galactic Far-ultraviolet Sky. *The Astrophysical Journal*, 779(2):180, 2013.
- [226] Akshaya, M. S., Murthy, J., Ravichandran, S., Henry, R. C., and Overduin, J. The Diffuse Radiation Field at High Galactic Latitudes. *The Astrophysical Journal*, 858(2):101, 2018.
- [227] Jura, M. Observational consequences of scattering clouds above the galactic disk. *The Astrophysical Journal*, 227:798–800, 1979.
- [228] Witt, A. N., Stecher, T. P., Boroson, T. A., and Bohlin, R. C. UV Fluorescence of Molecular Hydrogen and Red Dust Emission in the Gamma Cassiopeiae Nebulae IC 63. *The Astrophysical Journal Letters*, 336:L21, 1989.
- [229] Kulkarni, S. R. and Shull, J. M. Two-photon Production in Low-velocity Shocks. *Publications of the Astronomical Society of the Pacific*, 135(1054):124301, 2023.
- [230] Zhitnitsky, A. The mysterious diffuse UV radiation and axion quark nugget dark matter model. *Physics Letters B*, 828:137015, 2022.
- [231] Akshaya, M. S., Murthy, J., Ravichandran, S., Henry, R. C., and Overduin, J. Components of the diffuse ultraviolet radiation at high latitudes. *Monthly Notices of Royal Astronomical Society*, 489(1):1120–1126, 2019.

A multi-wavelength study of the interstellar medium of dwarf irregular galaxies

by Olag Pratim Bordoloi

Submission date: 24-Jan-2024 03:42PM (UTC+0530)

Submission ID: 2277355015

File name: study_of_the_interstellar_medium_of_dwarf_irregular_galaxies.pdf (1.31M)

Word count: 24713

Character count: 132096

A multi-wavelength study of the interstellar medium of dwarf irregular galaxies

ORIGINALITY REPORT

8%

SIMILARITY INDEX

6%

INTERNET SOURCES

6%

PUBLICATIONS

2%

STUDENT PAPERS

PRIMARY SOURCES

1	www.nature.com Internet Source	<1 %
2	www-users.cse.umn.edu Internet Source	<1 %
3	www.yumpu.com Internet Source	<1 %
4	coek.info Internet Source	<1 %
5	S. R. Kulkarni. "The Far Ultra-violet Background", Publications of the Astronomical Society of the Pacific, 2022 Publication	<1 %
6	prints.iiap.res.in Internet Source	<1 %
7	"The Cold Universe", Springer Nature, 2004 Publication	<1 %
8	Helmut Scheffler, Hans Elsässer. "Physics of the Galaxy and Interstellar Matter", Springer	<1 %

56

Cseh, D., P. Kaaret, S. Corbel, F. Grise, C. Lang, E. Kording, H. Falcke, P. G. Jonker, J. C. A. Miller-Jones, S. Farrell, Y. J. Yang, Z. Paragi, and S. Frey. "Unveiling recurrent jets of the ULX Holmberg II X-1: evidence for a massive stellar-mass black hole?", Monthly Notices of the Royal Astronomical Society Letters, 2014.

Publication

<1 %

57

theses.hal.science

Internet Source

<1 %

58

www.isro.gov.in

Internet Source

<1 %

59

Submitted to University of Salford

Student Paper

<1 %

60

Astronomy and Astrophysics Abstracts, 1988.

Publication

<1 %

61

G. Nandakumar, V. S. Veena, S. Vig, A. Tej, S. K. Ghosh, D. K. Ojha. "STAR-FORMING ACTIVITY IN THE H ii REGIONS ASSOCIATED WITH THE IRAS 17160-3707 COMPLEX", The Astronomical Journal, 2016

Publication

<1 %

Exclude quotes On

Exclude matches < 14 words

Exclude bibliography On