

Eric W. Pellegrini

Select Publication History

- Pellegrini, E.W., Smith, J.D., Crocker, A.F, Croxall, K.F, Rosolowski, E. Walter, F., Leroy, A.K., and the Beyond the Peak Team, "Let's Go SLEDDing Beyond the Peak: A HERSCHEL SPIRE-FTS Survey of Spatially Resolved CO Excitation in Nearby Galaxies", in-prep.
- De Looze, I., Cormier, D., Lebouteiller, V., et al., "The applicability of far-infrared fine-structure lines as star formation rate tracers over wide ranges of metallicities and galaxy types", 2014, A&A, 568, 62
- Lis, D.C., Schilke, P., Bergin, E.A., et al., "Widespread Rotationally Hot Hydronium Ion in the Galactic Interstellar Medium", 2014, ApJ, 785, 135
- Pellegrini, E.W., Smith, J.D., and Wolfire, M.G., et al., "Shock Excited Molecules in NGC 1266: ULIRG Conditions at the Center of a Bulge-dominated Galaxy", 2013, ApJ, 779, 19
- Croxall, Kevin V.; Smith, J. D.; Brandl, B. R.; Groves, B. A.; Kennicutt, R. C.; Kreckel, K.; Johnson, B. D.; Pellegrini, E.; Sandstrom, K. M.; Walter, F.; and coauthors, "Toward a Removal of Temperature Dependencies from Abundance Determinations: NGC 628", 2013, ApJ, 777, 96
- Sandstrom, K.M., Leroy, A.K., Walter, F., et al., "The CO-to-H₂ Conversion Factor and Dust-to-gas Ratio on Kiloparsec Scales in Nearby Galaxies", 2013, ApJ, 777, 5
- Rigopoulou D. et al., "Herschel-SPIRE Fourier transform spectroscopy of the nearby spiral galaxy IC 342", 2013, MNRAS, 434, 2051
- Zastrow, J.A., Oey, M.S. and Pellegrini, E.W. "Single-star H II Regions as a Probe of Massive Star Spectral Energy Distributions", 2013, ApJ, 769, 94
- Pellegrini, E. W., Oey, M.S., Points, S.D, Smith, C., Winkler, P.F., "The Escape Fraction of Ionizing Radiation in the Magellanic Clouds" ApJ 2012, 755, 40
- Kehrig, C., Oey, M.S., Crowther, P.A., Fogel, J., Pellegrini, E.W., Schnurr, O., Schaerer, D., Massey, P, Roth, K., 2011, A&A, 526, 128
- Pellegrini, E. W., Baldwin, J. A., Ferland, G. J., 2011 ApJ, 738, 34, "Structure and Feedback in 30 Doradus II: Structure and Chemical Abundances"
- Pellegrini, E. W., Baldwin, J. A., Ferland, G. J., 2010, ApJS, 191, 160, "Structure and Feedback in 30 Doradus I: A New Wide Field Spectroscopic Survey"
- Pellegrini, E. W., Oey, M., Winkler, P.F., Smith, R.C., Points, S., 2011, Bulletin de la Societe Royale des Sciences de Liege, 80, 410, "Escaping Radiation from Massive Star H-II regions in the Magellanic Clouds"
- Kehrig, C., Oey, M.S., Crowther, P., Fogel, J., Pellegrini, E.W., Schnurr, O., Schaerer, D., submitted, "Helium II Nebulae in M33"
- Gargi Shaw , G. J. Ferland , W. J. Henney , P. C. Stancil , N. P. Abel , E.W. Pellegrini , J.A. Baldwin , & P. A. M. van Hoof , 2009, ApJ, 701, 677, "Rotationally Warm Molecular Hydrogen in the Orion Bar"
- Pellegrini, E. W., Baldwin, J. A., Ferland, G. J., Shaw, G., Heathcote, S., 2009, ApJ, 693, 285, "Orion's

Bar: Physical Conditions across the Definitive H₊ / H₀ / H₂ Interface”

Williams, Robert; Jenkins, Edward B.; Baldwin, Jack A.; Zhang, Yong; Sharpee, Brian; Pellegrini, Eric; Phillips, Mark, 2008, ApJ, 677, 1100, “Independent Emission and Absorption Abundances for Planetary Nebulae”

Sharpee, Brian; Zhang, Yong; Williams, Robert; Pellegrini, Eric; Cavagnolo, Kenneth; Baldwin, Jack A.; Phillips, Mark; Liu, Xiao-Wei, 2007, ApJ, 659, 1265, “s-Process Abundances in Planetary Nebulae”

Pellegrini, E. W.; Baldwin, J. A.; Brogan, C. L.; Hanson, M. M.; Abel, N. P.; Ferland, G. J.; Nemala, H. B.; Shaw, G.; Troland, T. H., 2007, ApJ, 658, 1119, “A Magnetically Supported Photodissociation Region in M17”

Recent Invited Talks

“Ionization Parameter Mapping in the Magellanic Clouds”, NRAO, Charlottesville VA, September 2014

“HEROS SONG – HII-region Equation of state in Resolved Objects: Measuring the balance of radiation thermal gas and hot-x-ray pressures in star forming regions”, KITP, Santa Barbara California, Fire-Down-Below Conference, April 2014

“Gas and ¹²CO Excitation in the Local Universe”, University of Kentucky, Lexington, KY, April, 2014

“A Census of Molecular Gas and CO Excitation with Herschel in the Local Universe”, University of Notre Dame, February, 2014

“Stellar feedback in 30 Doradus: the importance of stellar winds, radiation pressure and SNe to present day dynamics”, Ringberg Castle, “Galactic Winds Near and Far”, June, 2013

“The Feedback, Pressure and Energy Balance in 30 Doradus”, STSCI, “30 Doradus, the Starburst Next Door”, September, 2012

Recent Submitted Talks

“Understanding Feedback”, Ringberg Castle, “Regulating Star Formation”, June, 2013

“Beyond The Peak: A Complete View of Molecular Gas in Nearby Galaxies”, IPAC conference “Star Formation and Regulation Near and Far”, March, 2013

“First Light: Physics of Early Star Forming Regions from the Local Universe”, AAS, Austin, TX, 2012

“Structure of Giant HII regions”, Michigan Astronomy Colloquium, September 10, 2009