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Cosmology

[Analysis of blueshifted emission peaks in Type II supernovae](#)

Anderson, J.P., Dessart, L., Gutierrez, C.P., Hamuy, M., Morrell, N.I., Phillips, M., Folatelli, G., Stritzinger, M.D., Freedman, W.L., González-Gaitán, S., McCarthy, P., Suntzeff, N., & Thomas-Osip, J., 2014, MNRAS, 441, 671 [\[ADS\]](#)

Instruments: EFOSC2, EMMI, ISAAC, SOFI

[The Sins/zC-Sinf Survey of \$z \sim 2\$ Galaxy Kinematics: Evidence for Powerful Active Galactic Nucleus-Driven Nuclear Outflows in Massive Star-Forming Galaxies](#)

Förster Schreiber, N.M., Genzel, R., Newman, S.F., Kurk, J.D., Lutz, D., Tacconi, L.J., Wuyts, S., Bandara, K., Burkert, A., Buschkamp, P., Carollo, C.M., Cresci, G., Daddi, E., Davies, R., Eisenhauer, F., Hicks, E.K.S., Lang, P., Lilly, S.J., **Mainieri, V.**, Mancini, C., Naab, T., Peng, Y., Renzini, A., Rosario, D., Shapiro Griffin, K., Shapley, A.E., Sternberg, A., Tacchella, S., Vergani, D., Wisnioski, E., Wuyts, E., & Zamorani, G., 2014, ApJ, 787, 38 [\[ADS\]](#)

Instruments: SINFONI

[Ionized gas discs in elliptical and S0 galaxies at \$z < 1\$](#)

Jaffé, Y.L., Aragón-Salamanca, A., Ziegler, B., **Kuntschner, H.**, Zaritsky, D., Rudnick, G., Poggianti, B.M., Hoyos, C., Halliday, C., & Demarco, R., 2014, MNRAS, 440, 3491 [\[ADS\]](#)

Instruments: FORS2, SOFI

[Herschel *-ATLAS: deep HST/WFC3 imaging of strongly lensed submillimetre galaxies](#)

Negrello, M., Hopwood, R., Dye, S., Cunha, E.d., Serjeant, S., Fritz, J., Rowlands, K., Fleuren, S., Bussmann, R.S., Cooray, A., Dannerbauer, H., Gonzalez-Nuevo, J., Lapi, A., Omont, A., Amber, S., Auld, R., Baes, M., Buttiglione, S., Cava, A., Danese, L., Dariush, A., De Zotti, G., Dunne, L., Eales, S., Ibar, E., **Iverson, R.J.**, Kim, S., Leeuw, L., Maddox, S., Michałowski, M.J., Massardi, M., Pascale, E., Pohlen, M., Rigby, E., Smith, D.J.B., Sutherland, W., Temi, P., & Wardlow, J., 2014, MNRAS, 440, 1999 [\[ADS\]](#)

Instruments: VIRCAM

[The Metallicity and Dust Content of a Redshift 5 Gamma-Ray Burst Host Galaxy](#)

Sparre, M., Hartoog, O.E., **Krühler, T.**, Fynbo, J.P.U., Watson, D.J., Wiersema, K., D'Elia, V., **Zafar, T.**, Afonso, P.M.J., Covino, S., de Ugarte Postigo, A., Flores, H., Goldoni, P., Greiner, J., Hjorth, J., Jakobsson, P., Kaper, L., Klose, S., Levan, A.J., Malesani, D., Milvang-Jensen, B., Nardini, M., Piranomonte, S., Sollerman, J., Sánchez-Ramírez, R., Schulze, S., Tanvir, N.R., Vergani, S.D., & Wijers, R.A.M.J., 2014, ApJ, 785, 150 [\[ADS\]](#)

Instruments: FORS2, XSHOOTER

Interstellar Medium, Star Formation and Planetary Systems

[The ATLASGAL survey: a catalog of dust condensations in the Galactic plane](#)

Csengeri, T., Urquhart, J.S., **Schuller, F.**, Motte, F., Bontemps, S., Wyrowski, F., Menten, K.M., Bronfman, L., Beuther, H., Henning, T., **Testi, L.**, Zavagno, A., & Walmsley, M., 2014, A&A, 565, 75 [\[ADS\]](#)

Instruments: LABOCA

[GG Tauri: the fifth element](#)

Di Folco, E., Dutrey, A., Le Bouquin, J.-B., Lacour, S., **Berger, J.-P.**, Köhler, R., Guilloteau, S., Piétu, V., Bary, J., Beck, T., Beust, H., Pantin, E., 2014, A&A, 565, L2 [\[ADS\]](#)

Instruments: NACO, PIONIER

[On the Nature of the Deeply Embedded Protostar OMC-2 FIR 4](#)

Furlan, E., Megeath, S.T., Osorio, M., Stutz, A.M., Fischer, W.J., Ali, B., **Stanke, T.**, Manoj, P., Adams, J.D., &

Tobin, J.J., 2014, ApJ, 786, 26 [[ADS](#)]
Instruments: LABOCA, SABOCA

Stellar Evolution

[Strömgren and near-infrared photometry of metal-rich bulge globular clusters. I. NGC 6528 and its surrounding field](#)

Calamida, A., Bono, G., Lagioia, E.P., Milone, A.P., Fabrizio, M., **Saviane, I.**, Moni Bidin, C., Mauro, F., Buonanno, R., Ferraro, I., Iannicola, G., & Zoccali, M., 2014, A&A, 565, 8 [[ADS](#)]
Instruments: EFOSC2

[PAH formation in O-rich planetary nebulae](#)

Guzman-Ramirez, L., Lagadec, E., **Jones, D.**, Zijlstra, A.A., & Gesicki, K., 2014, MNRAS, 441, 364 [[ADS](#)]
Instruments: VISIR

[Quantitative Spectroscopy of Blue Supergiants in Metal-poor Dwarf Galaxy NGC 3109](#)

Hosek, M.W.J., Kudritzki, R.-P., Bresolin, F., Urbaneja, M.A., Evans, C.J., Pietrzyński, G., Gieren, W., Przybilla, N., & **Carraro, G.**, 2014, ApJ, 785, 151 [[ADS](#)]
Instruments: FORS2

Miscellaneous

Larger sizes of massive quiescent early-type galaxies in clusters than in the field at $0.8 < z < 1.5$

Delaye, L., Huertas-Company, M., Mei, S., Lidman, C., Licitra, R., Newman, A., Raichoor, A., Shankar, F., Barrientos, F., Bernardi, M., Cerulo, P., Couch, W., Demarco, R., Muñoz, R., **Sánchez-Janssen, R.**, & Tanaka, M., 2014, MNRAS, 441, 203 [[ADS](#)]
Instruments: FORS2, ISAAC, SOFI, HAWKI

[ALMA resolves turbulent, rotating \[CII\] emission in a young starburst galaxy at \$z = 4.8\$](#)

De Breuck, C., Williams, R.J., Swinbank, M., Caselli, P., Coppin, K., **Davis, T.A.**, Maiolino, R., Nagao, T., Smail, I., Walter, F., Weiß, A., & **Zwaan, M.A.**, 2014, A&A, 565, 59 [[ADS](#)]
Instruments: ALMA_Bands, SHFI

[Molecular Gas Clumps from the Destruction of Icy Bodies in the \$\beta\$ Pictoris Debris Disk](#)

Dent, W.R.F., Wyatt, M.C., Roberge, A., Augereau, J.-C., Casassus, S., Corder, S., Greaves, J.S., **de Gregorio-Monsalvo, I.**, Hales, A., Jackson, A.P., Hughes, A.M., Lagrange, A.-M., Matthews, B., Wilner, D., 2014, Sci, 343, 1490 [[ADS](#)]
Instruments: ALMA_Bands, ALMA_Bands, ALMA_Bands

Papers without ESO data

Characterizing the V-band Light-curves of Hydrogen-rich Type II Supernovae

Anderson, J.P., González-Gaitán, S., Hamuy, M., Gutiérrez, C.P., Stritzinger, M.D., Olivares E., F., Phillips, M.M., Schulze, S., Antezana, R., Bolt, L., Campillay, A., Castellón, S., Contreras, C., de Jaeger, T., Folatelli, G., Förster, F., Freedman, W.L., González, L., Hsiao, E., Krzemiński, W., Krisciunas, K., Maza, J., McCarthy, P., Morrell, N.I., Persson, S.E., Roth, M., Salgado, F., Suntzeff, N.B., & Thomas-Osip, J., 2014, ApJ, 786, 67 [[ADS](#)]

Clouds on the Hot Jupiter HD189733b: Constraints from the Reflection Spectrum

Barstow, J.K., Aigrain, S., Irwin, P.G.J., Hackler, T., Fletcher, L.N., Lee, J.M., & **Gibson, N.P.**, 2014, ApJ, 786, 154 [[ADS](#)]

The Comparison of Physical Properties Derived from Gas and Dust in a Massive Star-forming Region

Battersby, C., Bally, J., Dunham, M., **Ginsburg, A.**, Longmore, S., & Darling, J., 2014, ApJ, 786, 116 [[ADS](#)]

NGC 4337: an overlooked old cluster in the inner disc of the Milky Way★

Carraro, G., Giorgi, E.E., Costa, E., & Vázquez, R.A., 2014, MNRAS, 441, L36 [[ADS](#)]

Temperaments of young stars: rapid mass accretion rate changes in T Tauri and Herbig Ae stars

Costigan, G., Vink, J.S., Scholz, A., Ray, T., & **Testi, L.**, 2014, MNRAS, 440, 3444 [[ADS](#)]

Spectral Energy Distribution Analysis of Class I and Class II FU Orionis Stars

Gramajo, L.V., **Rodón, J.A.**, & Gómez, M., 2014, *AJ*, 147, 140 [\[ADS\]](#)

Carbon and oxygen isotope ratios in starburst galaxies: New data from NGC 253 and Mrk 231 and their implications

Henkel, C., Asiri, H., Ao, Y., Aalto, S., Danielson, A.L.R., **Papadopoulos, P.P.**, García-Burillo, S., **Aladro, R.**, **Impellizzeri, C.M.V.**, **Mauersberger, R.**, Martín, S., & Harada, N., 2014, *A&A*, 565, 3 [\[ADS\]](#)

A resolved analysis of cold dust and gas in the nearby edge-on spiral NGC 891

Hughes, T.M., Baes, M., Fritz, J., Smith, M.W.L., Parkin, T.J., Gentile, G., Bendo, G.J., Wilson, C.D., Allaert, F., Bianchi, S., De Looze, I., Verstappen, J., Viaene, S., Boquien, M., Boselli, A., Clements, D.L., Davies, J.I., **Galametz, M.**, Madden, S.C., Rémy-Ruyer, A., & Spinoglio, L., 2014, *A&A*, 565, 4 [\[ADS\]](#)

Scattering of emission lines in galaxy cluster cores: measuring electron temperature

Khedekar, S., Churazov, E., Sazonov, S., Sunyaev, R., & **Emsellem, E.**, 2014, *MNRAS*, 441, 1537 [\[ADS\]](#)

What controls star formation in the central 500 pc of the Galaxy?

Kruijssen, J.M.D., **Longmore, S.N.**, Elmegreen, B.G., Murray, N., Bally, J., **Testi, L.**, & Kennicutt, R.C., 2014, *MNRAS*, 440, 3370 [\[ADS\]](#)

Magellan Adaptive Optics First-light Observations of the Exoplanet β Pic B. I. Direct Imaging in the Far-red Optical with MagAO+VisAO and in the Near-ir with NICI

Males, J.R., Close, L.M., Morzinski, K.M., **Wahhaj, Z.**, Liu, M.C., Skemer, A.J., Kopon, D., Follette, K.B., Puglisi, A., Esposito, S., Riccardi, A., Pinna, E., Xompero, M., Briguglio, R., Biller, B.A., Nielsen, E.L., Hinz, P.M., Rodigas, T.J., Hayward, T.L., Chun, M., Ftaclos, C., Toomey, D.W., & Wu, Y.-L., 2014, *ApJ*, 786, 32 [\[ADS\]](#)

On the deceleration of Fanaroff-Riley Class I jets: mass loading by stellar winds

Perucho, M., Martí, J.M., **Laing, R.A.**, & Hardee, P.E., 2014, *MNRAS*, 441, 1488 [\[ADS\]](#)

High resolution mesospheric sodium properties for adaptive optics applications

Pfrommer, T., & **Hickson, P.**, 2014, *A&A*, 565, 102 [\[ADS\]](#)

Planck intermediate results. XIV. Dust emission at millimetre wavelengths in the Galactic plane

Planck Collaboration, P.C., Ade, P.A.R., Aghanim, N., Alves, M.I.R., Arnaud, M., Ashdown, M., Atrio-Barandela, F., Aumont, J., Baccigalupi, C., Banday, A.J., Barreiro, R.B., Bartlett, J.G., Battaner, E., Benabed, K., Benoit-Lévy, A., Bernard, J.-P., Bersanelli, M., Bielewicz, P., Bobin, J., Bonaldi, A., Bond, J.R., Borrill, J., Bouchet, F.R., Boulanger, F., Bucher, M., Burigana, C., Butler, R.C., Cardoso, J.-F., Catalano, A., Chamballu, A., Chiang, H.C., Chiang, L.-Y., Christensen, P.R., Clements, D.L., Colombi, S., Colombo, L.P.L., Couchot, F., Crill, B.P., Curto, A., Cuttaia, F., Danese, L., Davies, R.D., Davis, R.J., de Bernardis, P., de Rosa, A., de Zotti, G., Delabrouille, J., Dickinson, C., Diego, J.M., Dole, H., Donzelli, S., Doré, O., Douspis, M., Dupac, X., Enßlin, T.A., Eriksen, H.K., Falgarone, E., Finelli, F., Fornì, O., Frailis, M., Franceschi, E., Galeotta, S., Ganga, K., Ghosh, T., Giard, M., Giardino, G., González-Nuevo, J., Górski, K.M., Gregorio, A., Gruppuso, A., Hansen, F.K., Harrison, D., Hernández-Monteagudo, C., Herranz, D., Hildebrandt, S.R., Hivon, E., Holmes, W.A., Hornstrup, A., Hovest, W., Jaffe, A.H., Jones, W.C., Juvela, M., Keihänen, E., Keskitalo, R., Kisner, T.S., Kneissl, R., Knoche, J., Kunz, M., Kurki-Suonio, H., Lagache, G., Lähteenmäki, A., Lamarre, J.-M., Lasenby, A., Laureijs, R.J., Lawrence, C.R., Leonardi, R., Liguori, M., Lilje, P.B., Linden-Vørnle, M., López-Caniego, M., Macías-Pérez, J.F., Maffei, B., Maino, D., Mandolesi, N., Maris, M., Marshall, D.J., Martin, P.G., Martínez-González, E., Masi, S., Matarrese, S., Mazzotta, P., Melchiorri, A., Mendes, L., Mennella, A., Migliaccio, M., Mitra, S., Miville-Deschênes, M.-A., Moneti, A., Montier, L., Morgante, G., Mortlock, D., Munshi, D., Murphy, J.A., Naselsky, P., Natí, F., Natoli, P., Nørgaard-Nielsen, H.U., Novello, F., Novikov, D., Novikov, I., Oxborrow, C.A., Pagano, L., Pajot, F., Paladini, R., Paoletti, D., Pasian, F., Patanchon, G., Peel, M., Perdereau, O., Perrotta, F., Piacentini, F., Piat, M., Pierpaoli, E., Pietrobon, D., Plaszczynski, S., Pointecouteau, E., Polenta, G., Ponthieu, N., Popa, L., Pratt, G.W., Prunet, S., Puget, J.-L., Rachen, J.P., Reach, W.T., Rebolo, R., Reinecke, M., Remazeilles, M., Renault, C., Ricciardi, S., Riller, T., Ristorcelli, I., Rocha, G., Rosset, C., Rubiño-Martín, J.A., Rusholme, B., Sandri, M., Savini, G., Scott, D., Spencer, L.D., Starck, J.-L., Stolyarov, V., Sureau, F., Sutton, D., Suur-Uski, A.-S., Sygnet, J.-F., Tauber, J.A., Tavagnacco, D., Terenzi, L., Toffolatti, L., Tomasi, M., Tristram, M., Tucci, M., Valenziano, L., Valiviita, J., Van Tent, B., Vielva, P., Villa, F., Vittorio, N., Wade, L.A., Wandelt, B.D., Yvon, D., Zacchei, A., Zonca, A., 2014, *A&A*, 564, 45 [\[ADS\]](#)

Gas and dust in the beta Pictoris moving group as seen by the Herschel Space Observatory

Riviere-Marichalar, P., Barrado, D., Montesinos, B., Duchêne, G., Bouy, H., Pinte, C., Menard, F., Donaldson, J., Eiroa, C., Krivov, A.V., Kamp, I., Mendigutía, I., **Dent, W.R.F.**, & Lillo-Box, J., 2014, *A&A*, 565, 68 [\[ADS\]](#)

The Herschel Planetary Nebula Survey (HerPlaNS). I. Data overview and analysis demonstration with NGC 6781

Ueta, T., Ladjal, D., Exter, K.M., Otsuka, M., Szczerba, R., Siódmiak, N., Aleman, I., van Hoof, P.A.M., Kastner, J.H., Montez, R., McDonald, I., **Wittkowski, M.**, Sandin, C., Ramstedt, S., De Marco, O., Villaver, E., Chu, Y.-H., Vlemmings, W., Izumiura, H., Sahai, R., Lopez, J.A., Balick, B., Zijlstra, A., Tielens, A.G.G.M., Rattray, R.E., Behar, E., Blackman, E.G., Hebden, K., Hora, J.L., Murakawa, K., Nordhaus, J., Nordon, R., Yamamura, I., 2014, A&A, 565, 36 [[ADS](#)]

Galaxy And Mass Assembly (GAMA): the wavelength-dependent sizes and profiles of galaxies revealed by MegaMorph

Vulcani, B., Bamford, S.P., Häußler, B., Vika, M., Rojas, A., Agius, N.K., Baldry, I., Bauer, A.E., Brown, M.J.I., Driver, S., Graham, A.W., Kelvin, L.S., **Liske, J.**, Loveday, J., Popescu, C.C., Robotham, A.S.G., & Tuffs, R.J., 2014, MNRAS, 441, 1340 [[ADS](#)]

The Baryonic Tully-Fisher Relationship for S4G Galaxies and the "Condensed" Baryon Fraction of Galaxies

Zaritsky, D., Courtois, H., Muñoz-Mateos, J.-C., Sorce, J., Erroz-Ferrer, S., Comerón, S., **Gadotti, D.A.**, Gil de Paz, A., Hinz, J.L., Laurikainen, E., **Kim, T.**, Laine, J., Menéndez-Delmestre, K., Mizusawa, T., Regan, M.W., Salo, H., Seibert, M., Sheth, K., Athanassoula, E., Bosma, A., Cisternas, M., Ho, L.C., Holwerda, B., 2014, AJ, 147, 134 [[ADS](#)]

G0.253+0.016: A Centrally Condensed, High-mass Protocluster

Rathborne, J.M., **Longmore, S.N.**, Jackson, J.M., Foster, J.B., Contreras, Y., Garay, G., **Testi, L.**, Alves, J.F., Bally, J., Bastian, N., Kruijssen, J.M.D., & Bressert, E., 2014, ApJ, 786, 140 [[ADS](#)]
Instruments: SHFI

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