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### Cosmology

#### [The subarcsecond mid-infrared view of local active galactic nuclei - I. The N- and O-band imaging atlas](#)

Asmus, D., Hönig, S.F., Gandhi, P., **Smette, A.**, & Duschl, W.J., 2014, MNRAS, 439, 1648 [[ADS](#)]

*Instruments:* VISIR

#### [The spin temperature of high-redshift damped Lyman \$\alpha\$ systems](#)

Kanekar, N., Prochaska, J.X., **Smette, A.**, Ellison, S.L., Ryan-Weber, E.V., Momjian, E., Briggs, F.H., Lane, W.M., Chengalur, J.N., Delafosse, T., Grave, J., Jacobsen, D., & de Bruyn, A.G., 2014, MNRAS, 438, 2131 [[ADS](#)]

*Instruments:* UVES

#### [The evolution of the dust and gas content in galaxies](#)

Santini, P., Maiolino, R., Magnelli, B., Lutz, D., Lamastra, A., Li Causi, G., Eales, S., **Andreani, P.**, Berta, S., Buat, V., Cooray, A., Cresci, G., Daddi, E., Farrah, D., Fontana, A., Franceschini, A., Genzel, R., Granato, G., Grazian, A., Le Floch, E., Magdis, G., Magliocchetti, M., Mannucci, F., Menci, N., Nordon, R., Oliver, S., Popesso, P., Pozzi, F., Riguccini, L., Rodighiero, G., Rosario, D.J., Salvato, M., Scott, D., Silva, L., Tacconi, L., Viero, M., Wang, L., Wuyts, S., & Xu, K., 2014, A&A, 562, 30 [[ADS](#)]

*Instruments:* FORS2, ISAAC, WFI, VIMOS

#### [A Substantial Population of Massive Quiescent Galaxies at \$z \sim 4\$ from ZFOURGE](#)

Straatman, C.M.S., Labbé, I., Spitler, L.R., Allen, R., Altieri, B., **Brammer, G.B.**, Dickinson, M., van Dokkum, P., Inami, H., Glazebrook, K., Kacprzak, G.G., Kawinwanichakij, L., Kelson, D.D., McCarthy, P.J., Mehrtens, N., Monson, A., Murphy, D., Papovich, C., Persson, S.E., Quadri, R., Rees, G., Tomczak, A., Tran, K.-V.H., Tilvi, V., 2014, ApJ, 783, L14 [[ADS](#)]

*Instruments:* HAWKI

### Galaxies and Galactic Nuclei

#### [The Gaia-ESO Survey: Abundance ratios in the inner-disk open clusters Trumpler 20, NGC 4815, NGC 6705](#)

Magrini, L., Randich, S., Romano, D., Friel, E., Bragaglia, A., **Smiljanic, R.**, Jacobson, H., Vallenari, A., Tosi, M., Spina, L., Donati, P., Maiorca, E., Cantat-Gaudin, T., Sordo, R., Bergemann, M., Damiani, F., Tautvaišienė, G., Blanco-Cuaresma, S., Jiménez-Esteban, F., Geisler, D., Mowlavi, N., Munoz, C., San Roman, I., Soubiran, C., Villanova, S., Zaggia, S., Gilmore, G., Asplund, M., Feltzing, S., Jeffries, R., Bensby, T., Kozlov, S., Korn, A.J., Flaccomio, E., Pancino, E., Recio-Blanco, A., Sacco, G., Costado, M.T., Franciosini, E., Jofre, P., de Laverny, P., Hill, V., Heiter, U., Hourihane, A., Jackson, R., Lardo, C., Morbidelli, L., Lewis, J., Lind, K., Masseron, T., Prisinzano, L., & Worley, C., 2014, A&A, 563, 44 [[ADS](#)]

*Instruments:* UVES, GIRAFFE, FLAMES

#### [Deriving metallicities from calcium triplet spectroscopy in combination with near-infrared photometry](#)

Mauro, F., Moni Bidin, C., Geisler, D., **Saviane, I.**, Da Costa, G.S., Gormaz-Matamala, A.C., **Vasquez, S.**, Chené, A.-N., Cohen, R., **Dias, B.**, 2014, A&A, 563, 76 [[ADS](#)]

*Instruments:* FORS2, VIRCAM

#### [Age Determination of 15 Old to Intermediate-age Small Magellanic Cloud Star Clusters](#)

Parisi, M.C., Geisler, D., **Carraro, G.**, Clariá, J.J., Costa, E., Grocholski, A.J., Sarajedini, A., Leiton, R., & Piatti, A.E., 2014, AJ, 147, 71 [[ADS](#)]

*Instruments:* FORS2

## Interstellar Medium, Star Formation and Planetary Systems

### [A library of near-infrared integral field spectra of young M-L dwarfs](#)

Bonnefoy, M., Chauvin, G., Lagrange, A.-M., Rojo, P., Allard, F., Pinte, C., **Dumas, C.**, Homeier, D., 2014, A&A, 562, 127 [[ADS](#)]

*Instruments:* NACO, SOFI, SINFONI, SPIFFI

### [Can eccentric debris disks be long-lived?. A first numerical investigation and application to \$\zeta\$ Reticuli](#)

Faramaz, V., Beust, H., Thébault, P., Augereau, J.-C., Bonsor, A., del Burgo, C., Ertel, S., Marshall, J.P., **Milli, J.**, Montesinos, B., Mora, A., Bryden, G., Danchi, W., Eiroa, C., White, G.J., Wolf, S., 2014, A&A, 563, 72 [[ADS](#)]

*Instruments:* NACO

### [Continued activity in P/2013 P5 PANSTARRS. Unexpected comet, rotational break-up, or rubbing binary asteroid?](#)

**Hainaut, O.R.**, Boehnhardt, H., Snodgrass, C., Meech, K.J., Deller, J., Gillon, M., Jehin, E., Kuehrt, E., Lowry, S.C., Manfroid, J., Micheli, M., Mottola, S., Opitom, C., Vincent, J.-B., Wainscoat, R., 2014, A&A, 563, 75 [[ADS](#)]

*Instruments:* EFOSC2

## Stellar Evolution

### [The yellow hypergiant HR 5171 A: Resolving a massive interacting binary in the common envelope phase\\*](#)

Chesneau, O., Meilland, A., Chapellier, E., Millour, F., van Genderen, A.M., Nazé, Y., Smith, N., Spang, A., **Smoker, J.V.**, Dessart, L., Kanaan, S., Bendjoya, P., Feast, M.W., Groh, J.H., Lobel, A., Nardetto, N., Otero, S., Oudmaijer, R.D., Tekola, A.G., Whitelock, P.A., Arcos, C., Curé, M., & Vanzi, L., 2014, A&A, 563, 71 [[ADS](#)]

*Instruments:* AMBER

### [NGC 5824: a luminous outer halo globular cluster with an intrinsic abundance spread](#)

Da Costa, G.S., Held, E.V., & **Saviane, I.**, 2014, MNRAS, 438, 3507 [[ADS](#)]

*Instruments:* FORS2

### [The VST Photometric H \$\alpha\$ Survey of the Southern Galactic Plane and Bulge \(VPHAS+\)](#)

Drew, J.E., Gonzalez-Solares, E., Greimel, R., Irwin, M.J., Kupcu Yoldas, A., Lewis, J., Barentsen, G., Eisloffel, J., Farnhill, H.J., Martin, W.E., **Walsh, J.R.**, Walton, N.A., Mohr-Smith, M., Raddi, R., Sale, S.E., Wright, N.J., Groot, P., Barlow, M.J., Corradi, R.L.M., Drake, J.J., Fabregat, J., Frew, D.J., Gaensicke, B.T., Knigge, C., Mampaso, A., Morris, R.A.H., Naylor, T., Parker, Q.A., Phillipps, S., Ruhland, C., Steeghs, D., Unruh, Y.C., Vink, J.S., **Wesson, R.**, & Zijlstra, A.A., 2014, arXiv, 1402, 7024 [[ADS](#)]

*Instruments:* OmegaCAM

### [The Na-O anticorrelation in horizontal branch stars. IV. M 22](#)

Gratton, R.G., Lucatello, S., Sollima, A., Carretta, E., Bragaglia, A., **Momany, Y.**, D'Orazi, V., Cassisi, S., & Salaris, M., 2014, A&A, 563, 13 [[ADS](#)]

*Instruments:* UVES, GIRAFFE, FLAMES

### [B fields in OB stars \(BOB\): The discovery of a magnetic field in a multiple system in the Trifid Nebula, one of the youngest star forming regions](#)

Hubrig, S., Fossati, L., Carroll, T.A., Castro, N., Gonzalez, J.F., Ilyin, I., Przybilla, N., **Schoeller, M.**, Oskinova, L.M., Morel, T., Langer, N., Scholz, R.D., Kharchenko, N.V., Nieva, M.-F., the BOB collaboration, t.B.c., 2014, arXiv, 1403, 491 [[ADS](#)]

*Instruments:* FORS2

### [The Be-test in the Li-rich star #1657 of NGC 6397: evidence for Li-flash in RGB stars?](#)

**Pasquini, L.**, Koch, A., Smiljanic, R., Bonifacio, P., & **Modigliani, A.**, 2014, A&A, 563, 3 [[ADS](#)]

*Instruments:* UVES

### [Mode identification based on time-series spectrophotometry for the bright rapid sdB pulsator EC 01541-1409](#)

**Randall, S.K.**, Fontaine, G., **Geier, S.**, Van Grootel, V., & Brassard, P., 2014, A&A, 563, 79 [[ADS](#)]

*Instruments:* FORS2

## Miscellaneous

### [Ground-based astrometry with wide field imagers. V. Application to near-infrared detectors: HAWK-I@VLT/ESO](#)

Libralato, M., Bellini, A., Bedin, L.R., Piotto, G., Platais, I., **Kissler-Patig, M.**, & Milone, A.P., 2014, A&A, 563, 80 [\[ADS\]](#)

*Instruments:* WFI, HAWKI

### [Constraining the nature of two Ly \$\alpha\$ emitters detected by ALMA at \$z = 4.7\$](#)

Williams, R.J., **Wagg, J.**, Maiolino, R., **Foster, C.**, **Aravena, M.**, Wiklind, T., Carilli, C.L., McMahon, R.G., Riechers, D., & Walter, F., 2014, MNRAS, 439, 2096 [\[ADS\]](#)

*Instruments:* FORS2, ALMA\_Bands, ALMA\_Bands, ALMA\_Bands, ALMA\_Bands

## Papers without ESO data

### **Degree-scale Cosmic Microwave Background Polarization Measurements from Three Years of BICEP1 Data**

**Barkats, D.**, Aikin, R., Bischoff, C., Buder, I., Kaufman, J.P., Keating, B.G., Kovac, J.M., Su, M., Ade, P.A.R., Battle, J.O., Bierman, E.M., Bock, J.J., Chiang, H.C., Dowell, C.D., Duband, L., Filippini, J., Hivon, E.F., Holzapfel, W.L., Hristov, V.V., Jones, W.C., Kuo, C.L., Leitch, E.M., Mason, P.V., Matsumura, T., Nguyen, H.T., Ponthieu, N., Pryke, C., Richter, S., Rocha, G., Sheehy, C., Kernasovskiy, S.S., Takahashi, Y.D., Tolan, J.E., & Yoon, K.W., 2014, ApJ, 783, 67 [\[ADS\]](#)

### **First results from the CALYPSO IRAM-PdBI survey. III. Monopolar jets driven by a proto-binary system in NGC 1333-IRAS2A**

Codella, C., **Maury, A.J.**, Gueth, F., Maret, S., Belloche, A., Cabrit, S., & André, P., 2014, A&A, 563, L3 [\[ADS\]](#)

### **ARRAKIS: atlas of resonance rings as known in the S4G**

Comerón, S., Salo, H., Laurikainen, E., Knapen, J.H., Buta, R.J., Herrera-Endoqui, M., Laine, J., Holwerda, B.W., Sheth, K., Regan, M.W., **Hinz, J.L.**, Muñoz-Mateos, J.C., Gil de Paz, A., Menéndez-Delmestre, K., Seibert, M., Mizusawa, T., Kim, T., Erroz-Ferrer, S., **Gadotti, D.A.**, Athanassoula, E., Bosma, A., & Ho, L.C., 2014, A&A, 562, 121 [\[ADS\]](#)

### **The Herschel Virgo Cluster Survey - XVI. A cluster inventory**

Davies, J.I., Bianchi, S., Baes, M., Bendo, G.J., Clemens, M., De Looze, I., Alighieri, S.d.S., Fritz, J., Fuller, C., Pappalardo, C., Hughes, T.M., Madden, S., Smith, M.W.L., Verstappen, J., & **Vlahakis, C.**, 2014, MNRAS, 438, 1922 [\[ADS\]](#)

### **CO(1-0) survey of high- $z$ radio galaxies: alignment of molecular halo gas with distant radio sources**

Emonts, B.H.C., Norris, R.P., Feain, I., Mao, M.Y., Ekers, R.D., Miley, G., Seymour, N., Röttgering, H.J.A., Villar-Martín, M., Sadler, E.M., Carilli, C.L., Mahony, E.K., **de Breuck, C.**, Stroe, A., Pentericci, L., van Moorsel, G.A., **Drouart, G.**, Ivison, R.J., Greve, T.R., Humphrey, A., **Wylezalek, D.**, & Tadhunter, C.N., 2014, MNRAS, 438, 2898 [\[ADS\]](#)

### **The dot{M}-M $_*$ relation of pre-main-sequence stars: a consequence of X-ray driven disc evolution**

Ercolano, B., Mayr, D., Owen, J.E., Rosotti, G., & **Manara, C.F.**, 2014, MNRAS, 439, 256 [\[ADS\]](#)

### **N-body simulation insights into the X-shaped bulge of the Milky Way: kinematics and distance to the Galactic Centre**

Gardner, E., Debattista, V.P., Robin, A.C., **Vásquez, S.**, & Zoccali, M., 2014, MNRAS, 438, 3275 [\[ADS\]](#)

### **Radio-loud active galactic nuclei at high redshifts and the cosmic microwave background**

Ghisellini, G., Celotti, A., Tavecchio, F., Haardt, F., & **Sbarrato, T.**, 2014, MNRAS, 438, 2694 [\[ADS\]](#)

### **How sensitive are predicted galaxy luminosities to the choice of stellar population synthesis model?**

Gonzalez-Perez, V., Lacey, C.G., Baugh, C.M., **Lagos, C.D.P.**, Helly, J., Campbell, D.J.R., & Mitchell, P.D., 2014, MNRAS, 439, 264 [\[ADS\]](#)

### **Orbit and properties of the massive X-ray binary BD +60 73=IGR J00370+6122**

**Grunhut, J.H.**, Bolton, C.T., & McSwain, M.V., 2014, A&A, 563, 1 [\[ADS\]](#)

### **Gas kinematics and excitation in the filamentary IRDC G035.39-00.33**

**Jiménez-Serra, I.**, Caselli, P., Fontani, F., Tan, J.C., Henshaw, J.D., Kainulainen, J., & Hernandez, A.K., 2014, MNRAS, 439, 1996 [\[ADS\]](#)

### **Galaxy And Mass Assembly (GAMA): ugrizYJHK Sérsic luminosity functions and the cosmic spectral energy distribution by Hubble type**

Kelvin, L.S., Driver, S.P., Robotham, A.S.G., Graham, A.W., Phillipps, S., Agius, N.K., Alpaslan, M., Baldry, I., Bamford, S.P., Bland-Hawthorn, J., Brough, S., Brown, M.J.I., Colless, M., Conselice, C.J., Hopkins, A.M., **Liske, J.**, Loveday, J., Norberg, P., Pimblett, K.A., Popescu, C.C., Prescott, M., Taylor, E.N., & Tuffs, R.J., 2014, MNRAS, 439, 1245 [\[ADS\]](#)

### **An episode of extremely low precipitable water vapour over Paranal observatory**

**Kerber, F.**, Querel, R.R., Rondanelli, R., **Hanuschik, R.**, van den Ancker, M., Cuevas, O., **Smette, A.**, **Smoker, J.**, Rose, T., & Czekala, H., 2014, MNRAS, 439, 247 [\[ADS\]](#)

### **The Role of Turbulence in Star Formation Laws and Thresholds**

Kraljic, K., Renaud, F., Bournaud, F., Combes, F., Elmegreen, B., **Emsellem, E.**, & Teyssier, R., 2014, ApJ, 784, 112 [\[ADS\]](#)

### **Galactic Globular Cluster NGC 6752 and Its Stellar Population as Inferred from Multicolor Photometry**

Kravtsov, V., Alcaíno, G., **Marconi, G.**, & **Alvarado, F.**, 2014, ApJ, 783, 56 [\[ADS\]](#)

### **Physical properties and transmission spectrum of the WASP-80 planetary system from multi-colour photometry**

Mancini, L., Southworth, J., Ciceri, S., Dominik, M., Henning, T., Jørgensen, U.G., Lanza, A.F., Rabus, M., Snodgrass, C., Vilela, C., Alsubai, K.A., Bozza, V., Bramich, D.M., Calchi Novati, S., D'Ago, G., **Figuera Jaimes, R.**, Galianni, P., Gu, S.-H., Harpsøe, K., Hinse, T., Hundertmark, M., Juncher, D., **Kains, N.**, Korhonen, H., Popovas, A., Rahvar, S., Skottfelt, J., Street, R., Surdej, J., Tsapras, Y., Wang, X.-B., Wertz, O., 2014, A&A, 562, 126 [\[ADS\]](#)

### **First X-ray-based statistical tests for clumpy-torus models: eclipse events from 230 years of monitoring of Seyfert AGN**

Markowitz, A.G., **Krumpe, M.**, & Nikutta, R., 2014, MNRAS, 439, 1403 [\[ADS\]](#)

### **Chemistry in isolation: High CCH/HCO<sup>+</sup> line ratio in the AMIGA galaxy CIG 638**

Martin, S., Verdes-Montenegro, L., **Aladro, R.**, Espada, D., Argudo-Fernández, M., Kramer, C., & Scott, T.C., 2014, A&A, 563, L6 [\[ADS\]](#)

### **First results from the CALYPSO IRAM-PdBI survey. II. Resolving the hot corino in the Class 0 protostar NGC 1333-IRAS2A**

**Maury, A.J.**, Belloche, A., André, P., Maret, S., Gueth, F., Codella, C., Cabrit, S., **Testi, L.**, & Bontemps, S., 2014, A&A, 563, L2 [\[ADS\]](#)

### **ESPRESSO: The next European exoplanet hunter**

Pepe, F., Molaro, P., Cristiani, S., Rebolo, R., Santos, N.C., **Dekker, H.**, Mégevand, D., Zerbi, F.M., Cabral, A., Di Marcantonio, P., Abreu, M., Affolter, M., Aliverti, M., Allende Prieto, C., Amate, M., **Avila, G.**, Baldini, V., **Bristow, P.**, Broeg, C., Cirami, R., Coelho, J., Conconi, P., Coretti, I., Cupani, G., D'Odorico, V., De Caprio, V., **Delabre, B.**, **Dorn, R.**, Figueira, P., Fragoso, A., Galeotta, S., Genolet, L., Gomes, R., González Hernández, J.I., Hughes, I., **Iwert, O.**, **Kerber, F.**, Landoni, M., **Lizon, J.-L.**, Lovis, C., Maire, C., Mannel, M., Martins, C., Monteiro, M., Oliveira, A., Poretti, E., Rasilla, J.L., Riva, M., Santana Tschudi, S., Santos, P., Sosnowska, D., Sousa, S., Spanó, P., Teneghi, F., Toso, G., Vanzella, E., Viel, M., Zapatero Osorio, M.R., 2014, AN, 335, 8 [\[ADS\]](#)

### **Evidence for Ubiquitous High-equivalent-width Nebular Emission in $z \sim 7$ Galaxies: Toward a Clean Measurement of the Specific Star-formation Rate Using a Sample of Bright, Magnified Galaxies**

Smit, R., Bouwens, R.J., Labbé, I., Zheng, W., Bradley, L., Donahue, M., Lemze, D., Moustakas, J., Umetsu, K., Zitrin, A., Coe, D., Postman, M., Gonzalez, V., Bartelmann, M., Benítez, N., Broadhurst, T., Ford, H., Grillo, C., Infante, L., Jimenez-Teja, Y., Jouvel, S., Kelson, D.D., Lahav, O., Maoz, D., Medezinski, E., Melchior, P., Meneghetti, M., Merten, J., Molino, A., Moustakas, L.A., Nonino, M., **Rosati, P.**, & Seitz, S., 2014, ApJ, 784, 58 [\[ADS\]](#)

**Extensive study of HD 25558, a long-period double-lined binary with two SPB components**

Sódor, A., De Cat, P., Wright, D.J., Neiner, C., Briquet, M., Lampens, P., Dukes, R.J., Henry, G.W., Williamson, M.H., Brunsden, E., Pollard, K.R., Cottrell, P.L., Maisonneuve, F., Kilmartin, P.M., Matthews, J., Kallinger, T., Beck, P.G., Kambe, E., Engelbrecht, C.A., Czanik, R.J., Yang, S., Hashimoto, O., Honda, S., Fu, J.N., Castanheira, B., Lehmann, H., Bognár, Z., Behara, N., Scaringi, S., Van Winckel, H., Menu, J., Lobel, A., Mathias, P., Saesen, S., **Vučković, M.**, & MiMeS collaboration, M.c., 2014, MNRAS, 438, 3535 [[ADS](#)]

**Galaxy Stellar Mass Functions from ZFOURGE/CANDELS: An Excess of Low-mass Galaxies since  $z = 2$  and the Rapid Buildup of Quiescent Galaxies**

Tomczak, A.R., Quadri, R.F., Tran, K.-V.H., Labbé, I., Straatman, C.M.S., Papovich, C., Glazebrook, K., Allen, R., **Brammer, G.B.**, Kacprzak, G.G., Kawinwanichakij, L., Kelson, D.D., McCarthy, P.J., Mehtens, N., Monson, A.J., Persson, S.E., Spitler, L.R., Tilvi, V., van Dokkum, P., 2014, ApJ, 783, 85 [[ADS](#)]

**First Faint Dual-field Off-axis Observations in Optical Long Baseline Interferometry**

**Woillez, J.**, Wizinowich, P., Akeson, R., Colavita, M., Eisner, J., Millan-Gabet, R., Monnier, J.D., Pott, J.-U., Ragland, S., 2014, ApJ, 783, 104 [[ADS](#)]

**Multi-wavelength Observations of Comet C/2011 L4 (Pan-STARRS)**

**Yang, B.**, Keane, J., Meech, K., Owen, T., & Wainscoat, R., 2014, ApJ, 784, L23 [[ADS](#)]

**Massive Molecular Gas Flows in the A1664 Brightest Cluster Galaxy**

Russell, H.R., McNamara, B.R., Edge, A.C., Nulsen, P.E.J., Main, R.A., Vantyghem, A.N., Combes, F., Fabian, A.C., Murray, N., Salomé, P., Wilman, R.J., Baum, S.A., Donahue, M., O'Dea, C.P., Oonk, J.B.R., **Tremblay, G.R.**, & Voit, G.M., 2014, ApJ, 784, 78 [[ADS](#)]

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