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Cosmology

[Galaxy population properties of the massive X-ray luminous galaxy cluster XDCP J0044.0-2033 at z = 1.58. Red-sequence formation, massive galaxy assembly, and central star formation activity](#)

Fassbender, R., Nastasi, A., Santos, J.S., Lidman, C., Verdugo, M., Koyama, Y., **Rosati, P.**, Pierini, D., Padilla, N., Romeo, A.D., Menci, N., Bongiorno, A., Castellano, M., Cerulo, P., Fontana, A., Galametz, A., Grazian, A., Lamastra, A., Pentericci, L., Sommariva, V., Strazzullo, V., Šuhada, R., & Tozzi, P., 2014, A&A, 568, 5 [[ADS](#)]
Instruments: FORS2, HAWKI

[Supernova 2010as: The Lowest-velocity Member of a Family of Flat-velocity Type IIb Supernovae](#)

Folatelli, G., Bersten, M.C., Kuncarayakti, H., Olivares Estay, F., **Anderson, J.P.**, Holmbo, S., Maeda, K., Morrell, N., Nomoto, K., Pignata, G., Stritzinger, M., Contreras, C., Förster, F., Hamuy, M., Phillips, M.M., Prieto, J.L., Valenti, S., Afonso, P., Altenmüller, K., Elliott, J., Greiner, J., Updike, A., Haislip, J.B., LaCluyze, A.P., Moore, J.P., & Reichart, D.E., 2014, ApJ, 792, 7 [[ADS](#)]
Instruments: EFOSC2, EMMI, VIS_GROND

[GROND coverage of the main peak of gamma-ray burst 130925A](#)

Greiner, J., Yu, H.-F., **Krübler, T.**, Frederiks, D.D., Beloborodov, A., Bhat, P.N., Bolmer, J., van Eerten, H., Aptekar, R.L., Elliott, J., Golenetskii, S.V., Graham, J.F., Hurley, K., Kann, D.A., Klose, S., Nicuesa Guelbenzu, A., Rau, A., Schady, P., Schmidl, S., Sudilovsky, V., Svinkin, D.S., Tanga, M., Ulanov, M.V., Varela, K., von Kienlin, A., & Zhang, X.-L., 2014, A&A, 568, 75 [[ADS](#)]
Instruments: HAWKI, VIS_GROND

Galaxies and Galactic Nuclei

[Nuclear 11.3 \$\mu\$ m PAH emission in local active galactic nuclei](#)

Alonso-Herrero, A., Ramos Almeida, C., Esquej, P., Roche, P.F., Hernán-Caballero, A., Hönic, S.F., González-Martín, O., Aretxaga, I., Mason, R.E., Packham, C., Levenson, N.A., Rodríguez Espinosa, J.M., **Siebenmorgen, R.**, Pereira-Santaella, M., Díaz-Santos, T., Colina, L., Alvarez, C., & Telesco, C.M., 2014, MNRAS, 443, 2766 [[ADS](#)]
Instruments: CanariCam

[New galactic star clusters discovered in the VVV survey. Candidates projected on the inner disk and bulge](#)

Borissova, J., Chené, A.-N., Ramírez Alegría, S., Sharma, S., Clarke, J.R.A., Kurtev, R., Negueruela, I., Marco, A., Amigo, P., Minniti, D., Bica, E., Bonatto, C., Catelan, M., Fierro, C., Geisler, D., Gromadzki, M., Hempel, M., Hanson, M.M., **Ivanov, V.D.**, Lucas, P., Majaess, D., Moni Bidin, C., Popescu, B., & Saito, R.K., 2014, A&A, 569, 24 [[ADS](#)]
Instruments: SOFI, VIRCAM

[The Gaia-ESO Survey: Stellar content and elemental abundances in the massive cluster NGC 6705](#)

Cantat-Gaudin, T., Vallenari, A., Zaggia, S., Bragaglia, A., Sordo, R., Drew, J.E., Eisloffel, J., Farnhill, H.J., Gonzalez-Solares, E., Greimel, R., Irwin, M.J., Kupcu-Yoldas, A., Jordi, C., Blomme, R., Sampedro, L., Costado, M.T., Alfaro, E., **Smiljanic, R.**, Magrini, L., Donati, P., Friel, E.D., Jacobson, H., Abbas, U., Hatzidimitriou, D., Spagna, A., Vecchiato, A., Balaguer-Nunez, L., Lardo, C., Tosi, M., Pancino, E., Klutsch, A., Tautvaisiene, G., Drazdauskas, A., Puzeras, E., Jiménez-Esteban, F., Maiorca, E., Geisler, D., San Roman, I., Villanova, S., Gilmore, G., Randich, S., Bensby, T., Flaccomio, E., Lanzafame, A., Recio-Blanco, A., Damiani, F., Hourihane, A., Jofré, P., de Laverny, P., Masseron, T., Morbidelli, L., Prisinzano, L., Sacco, G.G., Sbordone, L., & Worley, C.C., 2014, A&A, 569, 17 [[ADS](#)]
Instruments: FLAMES, GIRAFFE, UVES, WFI

[GCIRS 7, a pulsating M1 supergiant at the Galactic centre . Physical properties and age](#)

Paumard, T., Pfuhl, O., Martins, F., Kervella, P., Ott, T., Pott, J.-U., Le Bouquin, J.B., **Breitfelder, J.**, Gillessen, S., Perrin, G., Burtscher, L., Haubois, X., Brandner, W., 2014, A&A, 568, 85 [[ADS](#)]
Instruments: AMBER, NACO, PIONIER, SINFONI

Interstellar Medium, Star Formation and Planetary Systems

[Search for associations containing young stars \(SACY\). V. Is multiplicity universal? Tight multiple systems](#)

Elliott, P., Bayo, A., Melo, C.H.F., Torres, C.A.O., **Sterzik, M.**, & Quast, G.R., 2014, A&A, 568, 26 [[ADS](#)]
Instruments: FEROS, UVES

[Gas content of transitional disks: a VLT/X-Shooter study of accretion and winds](#)

Manara, C.F., Testi, L., Natta, A., Rosotti, G., Benisty, M., Ercolano, B., & Ricci, L., 2014, A&A, 568, 18 [[ADS](#)]
Instruments: XSHOOTER

[Similar origin for low- and high-albedo Jovian Trojans and Hilda asteroids?](#)

Marsset, M., Vernazza, P., Gourgeot, F., Dumas, C., Birlan, M., Lamy, P., & Binzel, R.P., 2014, A&A, 568, L7 [[ADS](#)]
Instruments: XSHOOTER

[X-shooter spectroscopy of young stellar objects. V. Slow winds in T Tauri stars](#)

Natta, A., **Testi, L.**, Alcalá, J.M., Rigliaco, E., Covino, E., Stelzer, B., & D'Elia, V., 2014, A&A, 569, 5 [[ADS](#)]
Instruments: XSHOOTER

[Discovery of a Companion Candidate in the HD 169142 Transition Disk and the Possibility of Multiple Planet Formation](#)

Reggiani, M., Quanz, S.P., Meyer, M.R., Pueyo, L., Absil, O., Amara, A., Anglada, G., Avenhaus, H., **Girard, J.H.**, Carrasco Gonzalez, C., Graham, J., **Mawet, D.**, Meru, F., **Milli, J.**, Osorio, M., Wolff, S., & Torres, J.-M., 2014, ApJ, 792, L23 [[ADS](#)]
Instruments: NACO

Stellar Evolution

[Discovery of new magnetic early-B stars within the MiMeS HARPSpol survey](#)

Alecian, E., Kochukhov, O., Petit, V., **Grunhut, J.**, Landstreet, J., Oksala, M.E., Wade, G.A., **Hussain, G.**, Neiner, C., Bohlender, D., & MiMeS Collaboration, M.C., 2014, A&A, 567, 28 [[ADS](#)]
Instruments: HARPS

[Clues on the Galactic evolution of sulphur from star clusters](#)

Caffau, E., **Monaco, L.**, Spite, M., Bonifacio, P., **Carraro, G.**, Ludwig, H.-G., Villanova, S., Beletsky, Y., Sbordone, L., 2014, A&A, 568, 29 [[ADS](#)]
Instruments: FLAMES, UVES

[Abundance analysis of red clump stars in the old, inner disc, open cluster NGC 4337: a twin of NGC 752?](#)

Carraro, G., Monaco, L., & Villanova, S., 2014, A&A, 568, 86 [[ADS](#)]
Instruments: FLAMES, GIRAFFE, UVES

[Massive stars in the giant molecular cloud G23.3-0.3 and W41](#)

Messineo, M., Menten, K.M., Figer, D.F., Davies, B., Clark, J.S., **Ivanov, V.D.**, Kudritzki, R.-P., Rich, R.M., MacKenty, J.W., Trombley, C., 2014, A&A, 569, 20 [[ADS](#)]
Instruments: SINFONI, SOFI

[The cosmological lithium problem outside the Galaxy: the Sagittarius globular cluster M54](#)

Mucciarelli, A., Salaris, M., Bonifacio, P., **Monaco, L.**, & Villanova, S., 2014, MNRAS, 444, 1812 [[ADS](#)]
Instruments: FLAMES, GIRAFFE

Papers without ESO data

BICEP2. II. Experiment and three-year Data Set

Ade, P.A.R., Aikin, R.W., Amiri, M., **Barkats, D.**, Benton, S.J., Bischoff, C.A., Bock, J.J., Brevik, J.A., Buder, I., Bullock, E., Davis, G., Day, P.K., Dowell, C.D., Duband, L., Filippini, J.P., Fliescher, S., Golwala, S.R., Halpern, M., Hasselfield, M., Hildebrandt, S.R., Hilton, G.C., Irwin, K.D., Karkare, K.S., Kaufman, J.P., Keating, B.G., Kernasovskiy, S.A., Kovac, J.M., Kuo, C.L., Leitch, E.M., Lombart, N., Lueker, M., Netterfield, C.B., Nguyen, H.T., O'Brient, R., Ogburn, R.W.I., Orlando, A., Pryke, C., Reintsema, C.D., Richter, S., Schwarz, R., Sheehy, C.D., Staniszewski, Z.K., Story, K.T., Sudiwala, R.V., Tepy, G.P., Tolan, J.E., Turner, A.D., Vieregg, A.G., Wilson, P., Wong, C.L., Yoon, K.W., & Bicep2 Collaboration, B.C., 2014, ApJ, 792, 62 [\[ADS\]](#)

Refined Rotational Period, Pole Solution, and Shape Model for (3200) Phaethon

Ansdell, M., Meech, K.J., **Hainaut, O.**, Buie, M.W., Kaluna, H., Bauer, J., & Dundon, L., 2014, ApJ, 793, 50 [\[ADS\]](#)

Kinematic alignment of non-interacting CALIFA galaxies. Quantifying the impact of bars on stellar and ionised gas velocity field orientations

Barrera-Ballesteros, J.K., Falcón-Barroso, J., García-Lorenzo, B., van de Ven, G., Aguerri, J.A.L., Mendez-Abreu, J., Spekkens, K., Lyubenova, M., Sánchez, S.F., **Husemann, B.**, Mast, D., García-Benito, R., Iglesias-Paramo, J., Del Olmo, A., Márquez, I., Masegosa, J., Kehrig, C., Marino, R.A., Verdes-Montenegro, L., Ziegler, B., McIntosh, D.H., Bland-Hawthorn, J., Walcher, C.J., & Califa Collaboration, C.C., 2014, A&A, 568, 70 [\[ADS\]](#)

Colour matters: the effects of lensing on the positional offsets between optical and submillimetre galaxies in Herschel-ATLAS

Bourne, N., Maddox, S.J., Dunne, L., Dye, S., Eales, S., Hoyos, C., González-Nuevo, J., Smith, D.J.B., Valiante, E., de Zotti, G., **Ivion, R.J.**, & Rowlands, K., 2014, MNRAS, 444, 1884 [\[ADS\]](#)

CLASH: A Census of Magnified Star-forming Galaxies at $z \sim 6-8$

Bradley, L.D., Zitrin, A., Coe, D., Bouwens, R., Postman, M., Balestra, I., Grillo, C., Monna, A., **Rosati, P.**, **Seitz, S.**, Host, O., Lemze, D., Moustakas, J., Moustakas, L.A., Shu, X., Zheng, W., Broadhurst, T., Carrasco, M., Jouvel, S., Koekemoer, A., Medezinski, E., Meneghetti, M., Nonino, M., Smit, R., Umetsu, K., Bartelmann, M., Benítez, N., Donahue, M., Ford, H., Infante, L., Jimenez-Teja, Y., Kelson, D., Lahav, O., Maoz, D., Melchior, P., Merten, J., & Molino, A., 2014, ApJ, 792, 76 [\[ADS\]](#)

Investigating the origin of cyclical wind variability in hot, massive stars - I. On the dipolar magnetic field hypothesis

David-Uraz, A., Wade, G.A., Petit, V., ud-Doula, A., Sundqvist, J.O., **Grunhut, J.**, **Shultz, M.**, Neiner, C., Alecian, E., Henrichs, H.F., Bouret, J.-C., MiMeS Collaboration, M.C., 2014, MNRAS, 444, 429 [\[ADS\]](#)

The applicability of far-infrared fine-structure lines as star formation rate tracers over wide ranges of metallicities and galaxy types

De Looze, I., Cormier, D., Lebouteiller, V., Madden, S., Baes, M., Bendo, G.J., Boquien, M., Boselli, A., Clements, D.L., **Cortese, L.**, Cooray, A., **Galametz, M.**, Galliano, F., Graciá-Carpio, J., Isaak, K., Karczewski, O.Ł., Parkin, T.J., Pellegrini, E.W., Rémy-Ruyer, A., Spinoglio, L., Smith, M.W.L., & Sturm, E., 2014, A&A, 568, 62 [\[ADS\]](#)

How to detect the signatures of self-gravitating circumstellar discs with the Atacama Large Millimeter/sub-millimeter Array

Dipierro, G., Lodato, G., **Testi, L.**, & **de Gregorio Monsalvo, I.**, 2014, MNRAS, 444, 1919 [\[ADS\]](#)

Galaxy And Mass Assembly (GAMA): stellar mass functions by Hubble type

Kelvin, L.S., Driver, S.P., Robotham, A.S.G., Taylor, E.N., Graham, A.W., Alpaslan, M., Baldry, I., Bamford, S.P., Bauer, A.E., Bland-Hawthorn, J., Brown, M.J.I., Colless, M., Conselice, C.J., Holwerda, B.W., Hopkins, A.M., Lara-López, M.A., **Liske, J.**, López-Sánchez, Á.R., Loveday, J., Norberg, P., Phillipps, S., Popescu, C.C., Prescott, M., Sansom, A.E., & Tuffs, R.J., 2014, MNRAS, 444, 1647 [\[ADS\]](#)

Hubble Space Telescope Observations of the Afterglow, Supernova, and Host Galaxy Associated with the Extremely Bright GRB 130427A

Levan, A.J., Tanvir, N.R., Fruchter, A.S., Hjorth, J., **Pian, E.**, Mazzali, P., Hounsell, R.A., Perley, D.A., Cano, Z., Graham, J., Cenko, S.B., Fynbo, J.P.U., Kouveliotou, C., Pe'er, A., Misra, K., & Wiersema, K., 2014, ApJ, 792, 115 [\[ADS\]](#)

Physical properties of the WASP-67 planetary system from multi-colour photometry

Mancini, L., Southworth, J., Ciceri, S., Calchi Novati, S., Dominik, M., Henning, T., Jørgensen, U.G., Korhonen, H., Nikolov, N., Alsubai, K.A., Bozza, V., Bramich, D.M., D'Ago, G., **Figuera Jaimes, R.**, Galianni, P., Gu, S.-H., Harpsøe, K., Hinse, T.C., Hundertmark, M., Juncher, D., Kains, N., Popovas, A., Rabus, M., Rahvar, S., Skottfelt, J., Snodgrass, C., Street, R., Surdej, J., Tsapras, Y., Vilela, C., Wang, X.-B., Wertz, O., 2014, A&A, 568, 127 [[ADS](#)]

Fundamental Limitations of High Contrast Imaging Set by Small Sample Statistics

Mawet, D., Milli, J., Wahhaj, Z., Pelat, D., Absil, O., Delacroix, C., Boccaletti, A., **Kasper, M.**, Kenworthy, M., Marois, C., Mennesson, B., & Pueyo, L., 2014, ApJ, 792, 97 [[ADS](#)]

Stellar physical parameters from Strömgren photometry. Application to the young stars in the Galactic anticenter survey

Monguió, M., Figueras, F., & **Grosbøl, P.**, 2014, A&A, 568, 119 [[ADS](#)]

Imaging the Inner and Outer Gaps of the Pre-transitional Disk of HD 169142 at 7 mm

Osorio, M., Anglada, G., Carrasco-González, C., Torrelles, J.M., Macías, E., Rodríguez, L.F., Gómez, J.F., D'Alessio, P., Calvet, N., Nagel, E., **Dent, W.R.F.**, Quanz, S.P., Reggiani, M., & Mayen-Gijon, J.M., 2014, ApJ, 791, L36 [[ADS](#)]

Feedback, scatter and structure in the core of the PKS 0745-191 galaxy cluster

Sanders, J.S., Fabian, A.C., Hlavacek-Larrondo, J., Russell, H.R., Taylor, G.B., Hofmann, F., **Tremblay, G.**, & Walker, S.A., 2014, MNRAS, 444, 1497 [[ADS](#)]

High-precision photometry by telescope defocussing - VI. WASP-24, WASP-25 and WASP-26

Southworth, J., Hinse, T.C., Burgdorf, M., Calchi Novati, S., Dominik, M., Galianni, P., Gerner, T., Giannini, E., Gu, S.-H., Hundertmark, M., Jørgensen, U.G., Juncher, D., Kerins, E., Mancini, L., Rabus, M., Ricci, D., Schäfer, S., Skottfelt, J., Tregloan-Reed, J., Wang, X.-B., Wertz, O., Alsubai, K.A., Andersen, J.M., Bozza, V., Bramich, D.M., Browne, P., Ciceri, S., D'Ago, G., Damerdjji, Y., Diehl, C., Dodds, P., Elyiv, A., Fang, X.-S., Finet, F., **Figuera Jaimes, R.**, Hardis, S., Harpsøe, K., Jessen-Hansen, J., Kains, N., Kjeldsen, H., Korhonen, H., Liebig, C., Lund, M.N., Lundkvist, M., Mathiasen, M., Penny, M.T., Popovas, A., Prof., S., Rahvar, S., Sahu, K., Scarpetta, G., Schmidt, R.W., Schönebeck, F., Snodgrass, C., Street, R.A., Surdej, J., Tsapras, Y., Vilela, C., 2014, MNRAS, 444, 776 [[ADS](#)]

Linking the X-ray and infrared properties of star-forming galaxies at $z < 1.5$

Symeonidis, M., Georgakakis, A., Page, M.J., Bock, J., **Bonzini, M.**, Buat, V., Farrah, D., Franceschini, A., Ibar, E., Lutz, D., Magnelli, B., Magdis, G., Oliver, S.J., Pannella, M., Paolillo, M., Rosario, D., Roseboom, I.G., Vaccari, M., & Villforth, C., 2014, MNRAS, 443, 3728 [[ADS](#)]

The Gemini NICI planet-finding campaign: The offset ring of HR 4796 A

Wahhaj, Z., Liu, M.C., Biller, B.A., Nielsen, E.L., Hayward, T.L., Kuchner, M., Close, L.M., Chun, M., Ftacilas, C., & Toomey, D.W., 2014, A&A, 567, 34 [[ADS](#)]

CALIFA: a diameter-selected sample for an integral field spectroscopy galaxy survey

Walcher, C.J., Wisotzki, L., Bekeraité, S., **Husemann, B.**, Iglesias-Páramo, J., Backsmann, N., Barrera Ballesteros, J., Catalán-Torrecilla, C., Cortijo, C., del Olmo, A., Garcia Lorenzo, B., Falcón-Barroso, J., Jilkova, L., Kalinova, V., Mast, D., Marino, R.A., Méndez-Abreu, J., Pasquali, A., Sánchez, S.F., Trager, S., Zibetti, S., Aguerri, J.A.L., Alves, J., Bland-Hawthorn, J., Boselli, A., Castillo Morales, A., Cid Fernandes, R., Flores, H., Galbany, L., Gallazzi, A., García-Benito, R., Gil de Paz, A., González-Delgado, R.M., Jahnke, K., Jungwiert, B., Kehrig, C., Lyubenova, M., Márquez Perez, I., Masegosa, J., Monreal Ibero, A., Pérez, E., Quirrenbach, A., Rosales-Ortega, F.F., Roth, M.M., Sanchez-Blazquez, P., Spekkens, K., Tundo, E., van de Ven, G., Verheijen, M.A.W., Vilchez, J.V., & Ziegler, B., 2014, A&A, 569, 1 [[ADS](#)]

The Next Generation Virgo Cluster Survey. V. Modeling the Dynamics of M87 with the Made-to-measure Method

Zhu, L., Long, R.J., Mao, S., Peng, E.W., Liu, C., Caldwell, N., Li, B., Blakeslee, J.P., Côté, P., Cuillandre, J.-C., Durrell, P., **Emsellem, E.**, Ferrarese, L., Gwyn, S., Jordán, A., Lançon, A., Mei, S., Muñoz, R., Puzia, T., 2014, ApJ, 792, 59 [[ADS](#)]

ALMA Observation of 158 μm [C II] Line and Dust Continuum of a $z = 7$ Normally Star-forming Galaxy in the Epoch of Reionization

Ota, K., Walter, F., Ohta, K., Hatsukade, B., Carilli, C.L., da Cunha, E., González-López, J., Decarli, R., Hodge, J.A., Nagai, H., Egami, E., Jiang, L., Iye, M., Kashikawa, N., Riechers, D.A., Bertoldi, F., **Cox, P.**, Neri, R., & Weiss, A., 2014, ApJ, 792, 34 [[ADS](#)]

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