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Cosmology

[Molecular hydrogen in the zabs = 2.66 damped Lyman- \$\alpha\$ absorber towards Q J 0643-5041. Physical conditions and limits on the cosmological variation of the proton-to-electron mass ratio](#)

Albornoz Vásquez, D., Rahmani, H., Noterdaeme, P., Petitjean, P., Srianand, R., & **Ledoux, C.**, 2014, A&A, 562, 88 [[ADS](#)]
Instruments: UVES, UVES, UVES, UVES

[Type-Ia Supernova Rates to Redshift 2.4 from CLASH: The Cluster Lensing And Supernova Survey with Hubble](#)

Graur, O., Rodney, S.A., Maoz, D., Riess, A.G., Jha, S.W., Postman, M., Dahlen, T., Holoien, T.W.-S., McCully, C., Patel, B., Strolger, L.-G., Benítez, N., Coe, D., Jouvel, S., Medezinski, E., Molino, A., Nonino, M., Bradley, L., Koekemoer, A., Balestra, I., Cenko, S.B., Clubb, K.I., Dickinson, M.E., Filippenko, A.V., Frederiksen, T.F., Garnavich, P., Hjorth, J., Jones, D.O., **Leibundgut, B.**, Matheson, T., Mobasher, B., **Rosati, P.**, Silverman, J.M., U, V., Jedruszczuk, K., Li, C., Lin, K., Mirmelstein, M., Neustadt, J., Ovadia, A., Rogers, E.H., 2014, ApJ, 783, 28 [[ADS](#)]
Instruments: FORS2, FORS2, FORS2, UVES, XSHOOTER, XSHOOTER, XSHOOTER

[CLASH: Photometric redshifts with 16 HST bands in galaxy cluster fields](#)

Jouvel, S., Host, O., Lahav, O., Seitz, S., Molino, A., Coe, D., Postman, M., Moustakas, L., Benitez, N., **Rosati, P.**, Balestra, I., Grillo, C., Bradley, L., Fritz, A., Kelson, D., Koekemoer, A.M., Lemze, D., Medezinski, E., Mercurio, A., Moustakas, J., Nonino, M., Scodreggio, M., Zheng, W., Zitrin, A., Bartelmann, M., Bouwens, R., Broadhurst, T., Donahue, M., Ford, H., Graves, G., Infante, L., Jimenez-Teja, Y., Lazkoz, R., Melchior, P., Meneghetti, M., Merten, J., Ogaz, S., & Umetsu, K., 2014, A&A, 562, 86 [[ADS](#)]
Instruments: VIMOS

Galaxies and Galactic Nuclei

[A low-luminosity type-1 QSO sample. I. Overluminous host spheroidals or undermassive black holes](#)

Busch, G., Zuther, J., Valencia-S., M., Moser, L., Fischer, S., Eckart, A., Scharwächter, J., **Gadotti, D.A.**, & Wisotzki, L., 2014, A&A, 561, 140 [[ADS](#)]
Instruments: SOFI

[The VMC survey. IX. Pilot study of the proper motion of stellar populations in the LMC from 2MASS and VISTA data](#)

Cioni, M.-R.L., Girardi, L., Moretti, M.I., Piffl, T., Ripepi, V., Rubele, S., Scholz, R.-D., Bekki, K., Clementini, G., **Ivanov, V.D.**, Oliveira, J.M., van Loon, J.T., 2014, A&A, 562, 32 [[ADS](#)]
Instruments: VIRCAM

[Investigating potential planetary nebula/cluster pairs](#)

Moni Bidin, C., Majaess, D., Bonatto, C., Mauro, F., Turner, D., Geisler, D., Chené, A.-N., Gormaz-Matamala, A.C., Borissova, J., Kurtev, R.G., Minniti, D., **Carraro, G.**, Gieren, W., 2014, A&A, 561, 119 [[ADS](#)]
Instruments: VIRCAM

[The GIRAFFE Inner Bulge Survey \(GIBS\). I. Survey description and a kinematical map of the Milky Way bulge](#)

Zoccali, M., **Gonzalez, O.A.**, **Vasquez, S.**, Hill, V., **Rejkuba, M.**, **Valenti, E.**, Renzini, A., Rojas-Arriagada, A., Martinez-Valpuesta, I., Babusiaux, C., Brown, T., Minniti, D., & McWilliam, A., 2014, A&A, 562, 66 [[ADS](#)]
Instruments: UVES, GIRAFFE, GIRAFFE, FLAMES

Interstellar Medium, Star Formation and Planetary Systems

[An exploration of Pluto's environment through stellar occultations](#)

Boissel, Y., Sicardy, B., Roques, F., Gaulme, P., Doressoundiram, A., Widemann, T., **Ivanov, V.D.**, **Marco, O.**, **Mason, E.**, Ageorges, N., Mouis, O., Rousselot, P., Dhillon, V.S., Littlefair, S.P., Marsh, T.R., Assafin, M., Braga Ribas, F., da Silva Neto, D., Camargo, J.I.B., Andrei, A., Vieira Martins, R., Behrend, R., & Kretlow, M., 2014, A&A, 561, 144 [[ADS](#)]
Instruments: NACO, NACO

[HOPS 136: An Edge-on Orion Protostar near the End of Envelope Infall](#)

Fischer, W.J., Megeath, S.T., Tobin, J.J., Hartmann, L., Stutz, A.M., Kounkel, M., Poteet, C.A., Ali, B., Osorio, M., Manoj, P., Remming, I., **Stanke, T.**, & Watson, D.M., 2014, ApJ, 781, 123 [[ADS](#)]
Instruments: LABOCA, SABOCA

CoRoT 223992193: A new, low-mass, pre-main sequence eclipsing binary with evidence of a circumbinary disk

Gillen, E., Aigrain, S., McQuillan, A., Bouvier, J., Hodgkin, S., Alencar, S.H.P., Terquem, C., Southworth, J., **Gibson, N.P.**, Cody, A., Lendl, M., Morales-Calderón, M., Favata, F., Stauffer, J., & Micela, G., 2014, A&A, 562, 50 [[ADS](#)]

Instruments: GIRAFFE, FLAMES

Resolving HD 100546 disc in the mid-infrared: Small inner disc and asymmetry near the gap

Panić, O., Ratzka, T., Mulders, G.D., Dominik, C., van Boekel, R., Henning, T., Jaffe, W., & Min, M., 2014, A&A, 562, 101 [[ADS](#)]

Instruments: MIDI, MIDI, MIDI

Characterization of the Benchmark Binary NLTT 33370

Schlieder, J.E., Bonnefoy, M., Herbst, T.M., Lépine, S., Berger, E., Henning, T., Skemer, A., Chauvin, G., Rice, E., Biller, B., **Girard, J.H.V.**, Lagrange, A.-M., Hinz, P., Defrère, D., Bergfors, C., Brandner, W., Lacour, S., Skrutskie, M., Leisenring, J., 2014, ApJ, 783, 27 [[ADS](#)]

Instruments: NACO, SINFONI

Organic Species in Infrared Dark Clouds

Vasyunina, T., Vasyunin, A.I., Herbst, E., Linz, H., Voronkov, M., Britton, T., Zinchenko, I., & **Schuller, F.**, 2014, ApJ, 780, 85 [[ADS](#)]

Instruments: SHFI, SHFI

Stellar Evolution

Chemical abundance analysis of the old, rich open cluster Trumpler 20

Carraro, G., Villanova, S., **Monaco, L.**, **Beccari, G.**, Ahumada, J.A., & **Boffin, H.M.J.**, 2014, A&A, 562, 39 [[ADS](#)]

Instruments: UVES, FLAMES

Orbital solutions of eight close sdB binaries and constraints on the nature of the unseen companions

Geier, S., Østensen, R.H., Heber, U., Kupfer, T., Maxted, P.F.L., Barlow, B.N., **Vučković, M.**, Tillich, A., Müller, S., Edelmann, H., Classen, L., & McLeod, A.F., 2014, A&A, 562, 95 [[ADS](#)]

Instruments: UVES, FEROS, FEROS, EMMI, EMMI, EFOSC2

The post-common-envelope, binary central star of the planetary nebula Hen 2-11

Jones, D., **Boffin, H.M.J.**, Miszalski, B., **Wesson, R.**, Corradi, R.L.M., & **Tyndall, A.A.**, 2014, A&A, 562, 89 [[ADS](#)]

Instruments: EFOSC2, EFOSC2

The wind of W Hydrae as seen by Herschel. I. The CO envelope

Khouri, T., de Koter, A., Decin, L., Waters, L.B.F.M., Lombaert, R., Royer, P., Swinyard, B., Barlow, M.J., Alcolea, J., Blommaert, J.A.D.L., Bujarrabal, V., Cernicharo, J., Groenewegen, M.A.T., Justtanont, K., Kerschbaum, F., **Maercker, M.**, Marston, A., Matsuura, M., Melnick, G., Menten, K.M., Olofsson, H., Planesas, P., Polehampton, E., Posch, T., Schmidt, M., Szczerba, R., Vandenbussche, B., & Yates, J., 2014, A&A, 561, 5 [[ADS](#)]

Instruments: FLASH, APEX-2A, APEX-2A, APEX-2A

Final Binary Star Results from the ESO VLT Lunar Occultations Program

Richichi, A., Fors, O., Cusano, F., & **Ivanov, V.D.**, 2014, AJ, 147, 57 [[ADS](#)]

Instruments: ISAAC, ISAAC

Early-type stars observed in the ESO UVES Paranal Observatory Project - IV. Studies of CN, CH+ and CH in the interstellar medium

Smoker, J., **Ledoux, C.**, Jehin, E., Keenan, F.P., Kennedy, M., Cabanac, R., & **Melo, C.**, 2014, MNRAS, 438, 1127 [[ADS](#)]

Instruments: UVES

Miscellaneous

A panoramic VISTA of the stellar halo of NGC 253

Greggio, L., **Rejkuba, M.**, **Gonzalez, O.A.**, **Arnaboldi, M.**, Iodice, E., Irwin, M., **Neeser, M.J.**, & Emerson, J., 2014, A&A, 562, 73 [[ADS](#)]

Instruments: VIRCAM

ALMA reveals a warm and compact starburst around a heavily obscured supermassive black hole at $z = 4.75$

Gilli, R., Norman, C., Vignali, C., Vanzella, E., Calura, F., Pozzi, F., Massardi, M., Mignano, A., Casasola, V., Daddi, E., Elbaz, D., Dickinson, M., Iwasawa, K., Maiolino, R., Brusa, M., Vito, F., Fritz, J., **Feltre, A.**, Cresci, G., Mignoli, M., Comastri, A., & Zamorani, G., 2014, A&A, 562, 67 [[ADS](#)]

Instruments: ALMA_Bands

An ALMA survey of sub-millimetre Galaxies in the Extended Chandra Deep Field South: the far-infrared properties of SMGs

Swinbank, A.M., Simpson, J.M., Smail, I., Harrison, C.M., Hodge, J.A., Karim, A., Walter, F., Alexander, D.M., Brandt, W.N., **de Breuck, C.**, da Cunha, E., Chapman, S.C., Coppin, K.E.K., Danielson, A.L.R., Dannerbauer, H., Decarli, R., Greve, T.R., Ivison, R.J., Knudsen, K.K., **Lagos, C.D.P.**, Schinnerer, E., Thomson, A.P., Wardlow, J.L., Weiß, A., & van der Werf, P., 2014, MNRAS, 438, 1267 [[ADS](#)]

Papers without ESO data

Observation of Markarian 421 in TeV gamma rays over a 14-year time span

Acciari, V.A., Arlen, T., Aune, T., Benbow, W., Bird, R., Bouvier, A., Bradbury, S.M., Buckley, J.H., Bugaev, V., de la Calle Perez, I., Carter-Lewis, D.A., Cesarini, A., Ciupik, L., Collins-Hughes, E., Connolly, M.P., Cui, W., Duke, C., Dumm, J., Falcone, A., Federici, S., Fegan, D.J., Fegan, S.J., Finley, J.P., Finnegan, G., Fortson, L., Gaidos, J., Galante, N., Gall, D., Gibbs, K., Gillanders, G.H., Griffin, S., Grube, J., Gyuk, G., Hanna, D., Horan, D., Humensky, T.B., Kaaret, P., Kertzman, M., Khassen, Y., Kieda, D., Krawczynski, H., Krennrich, F., Lang, M.J., McEnery, J.E., Madhavan, A.S., Moriarty, P., Nelson, T., O'Faoláin de Bhróithe, A., Ong, R.A., Orr, M., Otte, A.N., Perkins, J.S., **Petry, D.**, Pichel, A., Pohl, M., Quinn, J., Ragan, K., Reynolds, T., Roache, E., Rovero, A., Schroedter, M., Sembroski, G.H., Smith, A., Telezhinsky, I., Theiling, M., Toner, J., Tyler, J., Varlotta, A., Vivier, M., Wakely, S.P., Ward, J.E., Weekes, T.C., Weinstein, A., Welsing, R., Williams, D.A., & Wissel, S., 2014, *Aph*, 54, 1 [[ADS](#)]

The Herschel Virgo Cluster Survey. XV. Planck submillimetre sources in the Virgo Cluster

Baes, M., Herranz, D., Bianchi, S., Ciesla, L., Clemens, M., De Zotti, G., Allaert, F., Auld, R., Bendo, G.J., Boquien, M., Boselli, A., Clements, D.L., Cortese, L., Davies, J.I., De Looze, I., di Serego Alighieri, S., Fritz, J., Gentile, G., González-Nuevo, J., Hughes, T., Smith, M.W.L., Verstacken, J., Viaene, S., & **Vlahakis, C.**, 2014, *A&A*, 562, 106 [[ADS](#)]

Identification of red supergiants in nearby galaxies with mid-IR photometry

Britavskiy, N.E., Bonanos, A.Z., **Mehner, A.**, García-Álvarez, D., Prieto, J.L., & Morrell, N.I., 2014, *A&A*, 562, 75 [[ADS](#)]

Galaxy and Mass Assembly (GAMA): Mid-infrared Properties and Empirical Relations from WISE

Cluver, M.E., Jarrett, T.H., Hopkins, A.M., Driver, S.P., **Liske, J.**, Gunawardhana, M.L.P., Taylor, E.N., Robotham, A.S.G., Alpaslan, M., Baldry, I., Brown, M.J.I., Peacock, J.A., Popescu, C.C., Tuffs, R.J., Bauer, A.E., Bland-Hawthorn, J., Colless, M., Holwerda, B.W., Lara-López, M.A., Leschinski, K., López-Sánchez, A.R., Norberg, P., Owers, M.S., Wang, L., & Wilkins, S.M., 2014, *ApJ*, 782, 90 [[ADS](#)]

Removal of systematics in photometric measurements: static and rotating illumination corrections in FORS2@VLT data

Coccatto, L., Bramich, D.M., Freudling, W., & Moehler, S., 2014, *MNRAS*, 438, 1256 [[ADS](#)]

A Molecular Line Scan in the Hubble Deep Field North

Decarli, R., Walter, F., Carilli, C., Riechers, D., Cox, P., Neri, R., **Aravena, M.**, Bell, E., Bertoldi, F., Colombo, D., Da Cunha, E., Daddi, E., Dickinson, M., Downes, D., Ellis, R., Lentati, L., Maiolino, R., Menten, K.M., Rix, H.-W., Sargent, M., Stark, D., Weiner, B., Weiss, A., 2014, *ApJ*, 782, 78 [[ADS](#)]

Varying [C II]/[N II] Line Ratios in the Interacting System BR1202-0725 at $z = 4.7$

Decarli, R., Walter, F., Carilli, C., Bertoldi, F., **Cox, P.**, Ferkinhoff, C., Groves, B., Maiolino, R., Neri, R., Riechers, D., & Weiss, A., 2014, *ApJ*, 782, L17 [[ADS](#)]

Prompt emission of GRB 121217A from gamma-rays to the near-infrared

Elliott, J., Yu, H.-F., Schmidl, S., Greiner, J., Gruber, D., Oates, S., Kobayashi, S., Zhang, B., Cummings, J.R., Filgas, R., Gehrels, N., Grupe, D., Kann, D.A., Klose, S., **Krühler, T.**, Nicuesa Guelbenzu, A., Rau, A., Rossi, A., Siegel, M., Schady, P., Sudilovsky, V., Tanga, M., & Varela, K., 2014, *A&A*, 562, 100 [[ADS](#)]

Infrared Extinction in the Inner Milky Way through Red Clump Giants

González-Fernández, C., Asensio Ramos, A., Garzón, F., Cabrera-Lavers, A., & **Hammersley, P.L.**, 2014, *ApJ*, 782, 86 [[ADS](#)]

Near-infrared spectroscopy of Miranda

Gourgeot, F., Dumas, C., Merlin, F., Vernazza, P., & **Alvarez-Candal, A.**, 2014, *A&A*, 562, 46 [[ADS](#)]

X-Ray Properties of K-selected Galaxies at $0.5 < z < 2.0$: Investigating Trends with Stellar Mass, Redshift and Spectral Type

Jones, T.M., Kriek, M., van Dokkum, P.G., **Brammer, G.**, Franx, M., Greene, J.E., Labbé, I., & Whitaker, K.E., 2014, *ApJ*, 783, 25 [[ADS](#)]

Unveiling the Structure of Barred Galaxies at $3.6 \mu\text{m}$ with the Spitzer Survey of Stellar Structure in Galaxies (S4G). I. Disk Breaks

Kim, T., Gadotti, D.A., Sheth, K., Athanassoula, E., Bosma, A., Lee, M.G., Madore, B.F., Elmegreen, B., Knapen, J.H., Zaritsky, D., Ho, L.C., Comerón, S., Holwerda, B., Hinz, J.L., **Muñoz-Mateos, J.-C.**, Cisternas, M., Erroz-Ferrer, S., Buta, R., Laurikainen, E., Salo, H., Laine, J., Menéndez-Delmestre, K., Regan, M.W., de Swardt, B., Gil de Paz, A., Seibert, M., Mizusawa, T., 2014, *ApJ*, 782, 64 [[ADS](#)]

The soft component and the iron line as signatures of the disc inner radius in Galactic black hole binaries

Kolehmainen, M., Done, C., & **Díaz Trigo, M.**, 2014, *MNRAS*, 437, 316 [[ADS](#)]

On the Kinematic Separation of Field and Cluster Stars across the Bulge Globular NGC 6528

Lagioia, E.P., Milone, A.P., Stetson, P.B., Bono, G., Prada Moroni, P.G., Dall'Orta, M., Aparicio, A., Buonanno, R., Calamida, A., Ferraro, I., **Gilmozzi, R.**, Iannicola, G., Matsunaga, N., Monelli, M., & Walker, A., 2014, *ApJ*, 782, 50 [[ADS](#)]

Kepler-91b: a planet at the end of its life. Planet and giant host star properties via light-curve variations

Lillo-Box, J., Barrado, D., Moya, A., Montesinos, B., Montalbán, J., **Bayo, A.**, Barbieri, M., Régulo, C., Mancini, L., Bouy, H., & Henning, T., 2014, *A&A*, 562, 109 [\[ADS\]](#)

The evolution of the dust temperatures of galaxies in the SFR-M* plane up to $z \sim 2$

Magnelli, B., Lutz, D., Saintonge, A., Berta, S., Santini, P., Symeonidis, M., Altieri, B., **Andreani, P.**, Aussel, H., Béthermin, M., Bock, J., Bongiovanni, A., Cepa, J., Cimatti, A., Conley, A., Daddi, E., Elbaz, D., Förster Schreiber, N.M., Genzel, R., Ivison, R.J., Le Floc'h, E., Magdis, G., Maiolino, R., Nordon, R., Oliver, S.J., Page, M., Pérez García, A., Poglitsch, A., Popesso, P., Pozzi, F., Riguccini, L., Rodighiero, G., Rosario, D., Roseboom, I., Sanchez-Portal, M., Scott, D., Sturm, E., Tacconi, L.J., Valtchanov, I., Wang, L., & Wuyts, S., 2014, *A&A*, 561, 86 [\[ADS\]](#)

On the comparison between MASS and generalized-SCIDAR techniques

Masciadri, E., **Lombardi, G.**, & Lascaux, F., 2014, *MNRAS*, 438, 983 [\[ADS\]](#)

Herschel SPIRE and PACS observations of the red supergiant VY CMa: analysis of the molecular line spectra

Matsuura, M., Yates, J.A., Barlow, M.J., Swinyard, B.M., Royer, P., Cernicharo, J., Decin, L., **Wesson, R.**, Polehampton, E.T., Blommaert, J.A.D.L., Groenewegen, M.A.T., Van de Steene, G.C., & van Hoof, P.A.M., 2014, *MNRAS*, 437, 532 [\[ADS\]](#)

CLASH: $z \sim 6$ young galaxy candidate quintuply lensed by the frontier field cluster RXC J2248.7-4431

Monna, A., Seitz, S., Greisel, N., Eichner, T., Drory, N., Postman, M., Zitrin, A., Coe, D., Halkola, A., Suyu, S.H., Grillo, C., **Rosati, P.**, Lemze, D., Balestra, I., Snigula, J., Bradley, L., Umetsu, K., Koekemoer, A., Kuchner, U., Moustakas, L., Bartelmann, M., Benítez, N., Bouwens, R., Broadhurst, T., Donahue, M., Ford, H., Host, O., Infante, L., Jimenez-Teja, Y., Jouvel, S., Kelson, D., Lahav, O., Medezinski, E., Melchior, P., Meneghetti, M., Merten, J., Molino, A., Moustakas, J., Nonino, M., & Zheng, W., 2014, *MNRAS*, 438, 1417 [\[ADS\]](#)

Afterglow rebrightenings as a signature of a long-lasting central engine activity?. The emblematic case of GRB 100814A

Nardini, M., Elliott, J., Filgas, R., Schady, P., Greiner, J., **Krüehler, T.**, Klose, S., Afonso, P., Kann, D.A., Nicuesa Guelbenzu, A., Olivares E., F., Rau, A., Rossi, A., Sudilovsky, V., & Schmidl, S., 2014, *A&A*, 562, 29 [\[ADS\]](#)

High-resolution C+ imaging of HDF850.1 reveals a merging galaxy at $z = 5.185$

Neri, R., Downes, D., **Cox, P.**, & Walter, F., 2014, *A&A*, 562, 35 [\[ADS\]](#)

Hubble Space Telescope hot Jupiter transmission spectral survey: a detection of Na and strong optical absorption in HAT-P-1b

Nikolov, N., Sing, D.K., Pont, F., Burrows, A.S., Fortney, J.J., Ballester, G.E., Evans, T.M., Huitson, C.M., Wakeford, H.R., Wilson, P.A., Aigrain, S., Deming, D., **Gibson, N.P.**, Henry, G.W., Knutson, H., Lecavelier des Etangs, A., Showman, A.P., Vidal-Madjar, A., & Zahnle, K., 2014, *MNRAS*, 437, 46 [\[ADS\]](#)

Gemini multiconjugate adaptive optics system review - I. Design, trade-offs and integration

Rigaut, F., Neichel, B., Boccas, M., d'Orgeville, C., Vidal, F., van Dam, M.A., Arriagada, G., Fesquet, V., Galvez, R.L., Gausachs, G., Cavedoni, C., Ebberts, A.W., Karewicz, S., James, E., Lührs, J., Montes, V., Perez, G., Rambold, W.N., Rojas, R., Walker, S., Bec, M., Trancho, G., Sheehan, M., Irarrazaval, B., Boyer, C., Ellerbroek, B.L., Flicker, R., Gratadour, D., **Garcia-Rissmann, A.**, & Daruich, F., 2014, *MNRAS*, 437, 2361 [\[ADS\]](#)

An observational evaluation of magnetic confinement in the winds of BA supergiants

Shultz, M., Wade, G.A., Petit, V., **Grunhut, J.**, Neiner, C., Hanes, D., & MiMeS Collaboration, M.C., 2014, *MNRAS*, 438, 1114 [\[ADS\]](#)

Submillimeter Galaxies as Progenitors of Compact Quiescent Galaxies

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A Super-Jupiter Orbiting a Late-type Star: A Refined Analysis of Microlensing Event OGLE-2012-BLG-0406

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A Molecular Line Scan in the Hubble Deep Field North: Constraints on the CO Luminosity Function and the Cosmic H₂ Density

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