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Cosmology

[Skycorr: A general tool for spectroscopic sky subtraction](#)

Noll, S., Kausch, W., Kimeswenger, S., Barden, M., Jones, A.M., **Modigliani, A.**, Szyszka, C., & **Taylor, J.**, 2014, A&A, 567, 25 [[ADS](#)]

Instruments: SINFONI, XSHOOTER

[Type Ia Supernova Rate Measurements to Redshift 2.5 from CANDELS: Searching for Prompt Explosions in the Early Universe](#)

Rodney, S.A., Riess, A.G., Strolger, L.-G., Dahlen, T., Graur, O., Casertano, S., Dickinson, M.E., Ferguson, H.C., Garnavich, P., Hayden, B., Jha, S.W., Jones, D.O., Kirshner, R.P., Koekemoer, A.M., McCully, C., Mobasher, B., Patel, B., Weiner, B.J., Cenko, S.B., Clubb, K.I., Cooper, M., Filippenko, A.V., Frederiksen, T.F., Hjorth, J., **Leibundgut, B.**, Matheson, T., Nayyeri, H., Penner, K., Trump, J., Silverman, J.M., U, V., Azalee Bostroem, K., Challis, P., Rajan, A., Wolff, S., Faber, S.M., Grogan, N.A., Kocevski, D., 2014, AJ, 148, 13 [[ADS](#)]

Instruments: XSHOOTER

[GRB 120422A/SN 2012bz: Bridging the gap between low- and high-luminosity gamma-ray bursts](#)

Schulze, S., Malesani, D., Cucchiara, A., Tanvir, N.R., **Krühler, T.**, de Ugarte Postigo, A., Leloudas, G., Lyman, J., Bersier, D., Wiersema, K., Perley, D.A., Schady, P., Gorosabel, J., **Anderson, J.P.**, Castro-Tirado, A.J., Cenko, S.B., De Cia, A., Ellerbroek, L.E., Fynbo, J.P.U., Greiner, J., Hjorth, J., Kann, D.A., Kaper, L., Klose, S., Levan, A.J., **Martín, S.**, O'Brien, P.T., Page, K.L., Pignata, G., Rapaport, S., Sánchez-Ramírez, R., Sollerman, J., Smith, I.A., Sparre, M., Thöne, C.C., Watson, D.J., Xu, D., Bauer, F.E., Bayliss, M., Björnsson, G., Bremer, M., Cano, Z., Covino, S., D'Elia, V., Frail, D.A., Geier, S., Goldoni, P., Hartoog, O.E., Jakobsson, P., Korhonen, H., Lee, K.Y., Milvang-Jensen, B., Nardini, M., Nicuesa Guelbenzu, A., Oguri, M., Pandey, S.B., Petitpas, G., Rossi, A., Sandberg, A., Schmid, S., Tagliaferri, G., Tilanus, R.P.J., Winters, J.M., Wright, D., & Wuyts, E., 2014, A&A, 566, 102 [[ADS](#)]

Instruments: VIS_GROND, XSHOOTER

Galaxies and Galactic Nuclei

[Mid-infrared interferometry with K band fringe-tracking. I. The VLTi MIDI+FSU experiment](#)

Müller, A., Pott, J.-U., **Mérand, A.**, **Abuter, R.**, **Delplancke-Ströbele, F.**, Henning, T., Köhler, R., Leinert, C., **Morel, S.**, **Phan Duc, T.**, **Pozna, E.**, **Ramirez, A.**, Sahlmann, J., & **Schmid, C.**, 2014, A&A, 567, 98 [[ADS](#)]

Instruments: MIDI

[The Gaia-ESO Survey: the Galactic thick to thin disc transition](#)

Recio-Blanco, A., de Laverny, P., Kordopatis, G., Helmi, A., Hill, V., Gilmore, G., Wyse, R., Adibekyan, V., Randich, S., Asplund, M., Feltzing, S., Jeffries, R., Micela, G., Vallenari, A., Alfaro, E., Allende Prieto, C., Bensby, T., Bragaglia, A., Flaccomio, E., Koposov, S.E., Korn, A., Lanzafame, A., Pancino, E., **Smiljanic, R.**, Jackson, R., Lewis, J., Magrini, L., Morbidelli, L., Prisinzano, L., Sacco, G., Worley, C.C., Hourihane, A., Bergemann, M., Costado, M.T., Heiter, U., Joffe, P., Lardo, C., Lind, K., & Maiorca, E., 2014, A&A, 567, 5 [[ADS](#)]

Instruments: FLAMES, GIRAFFE, UVES

[Properties of bow-shock sources at the Galactic center](#)

Sanchez-Bermudez, J., Schödel, R., Alberdi, A., **Muzić, K.**, **Hummel, C.A.**, & Pott, J.-U., 2014, A&A, 567, 21 [[ADS](#)]

Instruments: NACO

[Mapping the Milky Way bulge at high resolution: the 3D dust extinction, CO, and X factor maps](#)

Schultheis, M., Chen, B.Q., Jiang, B.W., **Gonzalez, O.A.**, Enokiya, R., Fukui, Y., Torii, K., **Rejkuba, M.**, & Minniti, D., 2014, A&A, 566, 120 [[ADS](#)]

Instruments: VIRCAM

Interstellar Medium, Star Formation and Planetary Systems

[The properties of planets around giant stars](#)

Jones, M.I., Jenkins, J.S., Bluhm, P., Rojo, P., & **Melo, C.H.F.**, 2014, A&A, 566, 113 [[ADS](#)]

Instruments: FEROS

[Stellar Parameters and Accretion Rate of the Transition Disk Star HD 142527 from X-Shooter](#)

Mendigutía, I., Fairlamb, J., Montesinos, B., Oudmaijer, R.D., Najita, J.R., Brittain, S.D., & **van den Ancker, M.E.**, 2014, ApJ,

Stellar Evolution

VLTI/AMBER observations of cold giant stars: atmospheric structures and fundamental parameters

Arroyo-Torres, B., Martí-Vidal, I., Marcaide, J.M., **Wittkowski, M.**, Guirado, J.C., Hauschildt, P.H., Quirrenbach, A., & Fabregat, J., 2014, A&A, 566, 88 [ADS]
Instruments: AMBER

The variable stellar wind of Rigel probed at high spatial and spectral resolution

Chesneau, O., **Kaufer, A.**, Stahl, O., **Colvinter, C.**, **Spang, A.**, Dessart, L., Prinja, R., & Chini, R., 2014, A&A, 566, 125 [ADS]
Instruments: AMBER

Diversity of gamma-ray burst energetics vs. supernova homogeneity: SN 2013cq associated with GRB 130427A

Melandri, A., Pian, E., D'Elia, V., D'Avanzo, P., Della Valle, M., Mazzali, P.A., Tagliaferri, G., Cano, Z., Levan, A.J., **Moller, P.**, Amati, L., Bernardini, M.G., Bersier, D., Bufano, F., Campana, S., Castro-Tirado, A.J., Covino, S., Ghirlanda, G., Hurley, K., Malesani, D., Masetti, N., Palazzi, E., Piranomonte, S., Rossi, A., Salvaterra, R., Starling, R.L.C., Tanaka, M., Tanvir, N.R., & Vergani, S.D., 2014, A&A, 567, 29 [ADS]
Instruments: FORS2

Optical and near-infrared spectroscopy of the black hole GX 339-4 - II. The spectroscopic content in the low/hard and high/soft states

Rahoui, F., Coriat, M., & Lee, J.C., 2014, MNRAS, 442, 1610 [ADS]
Instruments: FORS2, ISAAC

Miscellaneous

CRILES-VLT high-resolution spectro-astrometry as a tool in the search for disks inside the cores of planetary nebulae

Blanco Cárdenas, M.W., **Käufl, H.U.**, Guerrero, M.A., Miranda, L.F., & Seifahrt, A., 2014, A&A, 566, 133 [ADS]
Instruments: CRILES

The near-infrared structure of the barred galaxy NGC 253 from VISTA*

Iodice, E., **Arnaboldi, M.**, **Rejkuba, M.**, **Neeser, M.J.**, Greggio, L., **Gonzalez, O.A.**, Irwin, M., & Emerson, J.P., 2014, A&A, 567, 86 [ADS]
Instruments: VIRCAM

Detection of chloronium and measurement of the 35Cl/37Cl isotopic ratio at z = 0.89 toward PKS 1830-211

Muller, S., Black, J.H., Guélin, M., Henkel, C., Combes, F., Gérin, M., Aalto, S., Beelen, A., Darling, J., Horellou, C., Martín, S., Menten, K.M., V-Trung, D., & **Zwaan, M.A.**, 2014, A&A, 566, L6 [ADS]
Instruments: ALMA_Bands

An ALMA Early Science survey of molecular absorption lines toward PKS 1830-211. Analysis of the absorption profiles

Muller, S., Combes, F., Guélin, M., Gérin, M., Aalto, S., Beelen, A., Black, J.H., Curran, S.J., Darling, J., V-Trung, D., García-Burillo, S., Henkel, C., Horellou, C., Martín, S., Martí-Vidal, I., Menten, K.M., Murphy, M.T., Ott, J., **Wiklind, T.**, & **Zwaan, M.A.**, 2014, A&A, 566, 112 [ADS]
Instruments: ALMA_Bands

Papers without ESO data

Herschel Planetary Nebula Survey (HerPlaNS). First detection of OH+ in planetary nebulae

Aleman, I., Ueta, T., Ladjal, D., Exter, K.M., Kastner, J.H., Montez, R., Tielens, A.G.G.M., Chu, Y.-H., Izumiura, H., McDonald, I., Sahai, R., Siódmiak, N., Szczerba, R., van Hoof, P.A.M., Villaver, E., Vlemmings, W., **Wittkowski, M.**, Zijlstra, A.A., 2014, A&A, 566, 79 [ADS]

The bivariate K-band-submillimetre luminosity functions of the local HRS galaxy sample

Andreani, P., Spinoglio, L., Boselli, A., Ciesla, L., Cortese, L., Vio, R., Baes, M., Bendo, G.J., & De Looze, I., 2014, A&A, 566, 70 [ADS]

HerMES: The Rest-frame UV Emission and a Lensing Model for the z = 6.34 Luminous Dusty Starburst Galaxy HFLS3

Cooray, A., Calanog, J., Wardlow, J.L., Bock, J., Bridge, C., Burgarella, D., Bussmann, R.S., Casey, C.M., Clements, D., Conley, A., Farrah, D., Fu, H., Gavazzi, R., **Ivison, R.J.**, La Porte, N., Lo Faro, B., Ma, B., Magdis, G., Oliver, S.J., Osage, W.A., Pérez-Fournon, I., Riechers, D., Rigopoulou, D., Scott, D., Viero, M., & Watson, D., 2014, ApJ, 790, 40 [ADS]

Uncovering Multiple Populations with Washington Photometry. I. The Globular Cluster NGC 1851

Cummings, J.D., Geisler, D., Villanova, S., & Carraro, G., 2014, AJ, 148, 27 [ADS]

The Type IIP Supernova 2012aw in M95: Hydrodynamical Modeling of the Photospheric Phase from Accurate Spectrophotometric Monitoring

Dall'Orta, M., Botticella, M.T., Pumo, M.L., Zampieri, L., Tomasella, L., Pignata, G., Bayless, A.J., Pritchard, T.A., Taubenberger, S., Kotak, R., Inserra, C., Della Valle, M., Cappellaro, E., Benetti, S., Benitez, S., Bufano, F., Elias-Rosa, N., Fraser, M., Haislip, J.B., Harutyunyan, A., Howell, D.A., Hsiao, E.Y., Iijima, T., Kankare, E., Kuin, P., Maund, J.R., Morales-Garoffolo, A., Morrell, N., Munari, U., Ochner, P., Pastorello, A., Patat, F., Phillips, M.M., Reichart, D., Roming, P.W.A., Siviero, A., Smartt, S.J., Sollerman, J., Taddia, F., Valenti, S., & Wright, D., 2014, ApJ, 787, 139 [ADS]

Herschel reveals a molecular outflow in a $z = 2.3$ ULIRG

George, R.D., Ivison, R.J., Smail, I., Swinbank, A.M., Hopwood, R., Stanley, F., Swinyard, B.M., Valtchanov, I., & Werf, P.P.v.d., 2014, MNRAS, 442, 1877 [ADS]

Herschel-ATLAS/GAMA: SDSS cross-correlation induced by weak lensing

González-Nuevo, J., Lapi, A., Negrello, M., Danese, L., De Zotti, G., Amber, S., Baes, M., Bland-Hawthorn, J., Bourne, N., Brough, S., Bussmann, R.S., Cai, Z.-Y., Cooray, A., Driver, S.P., Dunne, L., Dye, S., Eales, S., Ibar, E., Ivison, R., Liske, J., Loveday, J., Maddox, S., Michałowski, M.J., Robotham, A.S.G., Scott, D., Smith, M.W.L., Valiante, E., Xia, J.-Q., 2014, MNRAS, 442, 2680 [ADS]

3C 220.3: A Radio Galaxy Lensing a Submillimeter Galaxy

Haas, M., Leipski, C., Barthel, P., Wilkes, B.J., Vegetti, S., Bussmann, R.S., Willner, S.P., Westhues, C., Ashby, M.L.N., Chini, R., Clements, D.L., Fassnacht, C.D., Horesh, A., Klaas, U., Koopmans, L.V.E., Kuraszewicz, J., Lagattuta, D.J., Meisenheimer, K., Stern, D., & Wylezalek, D., 2014, ApJ, 790, 46 [ADS]

Untangling the Nature of Spatial Variations of Cold Dust Properties in Star Forming Galaxies

Kirkpatrick, A., Calzetti, D., Kennicutt, R., Galametz, M., Gordon, K., Groves, B., Hunt, L., Dale, D., Hinz, J., & Tabatabaei, F., 2014, ApJ, 789, 130 [ADS]

X-ray diagnostics of chemical composition of the accretion disc and donor star in UCXBs - II. XMM-Newton observations

Koliopanos, F., Gilfanov, M., Bildsten, L., & Trigo, M.D., 2014, MNRAS, 442, 2817 [ADS]

Reaching micro-arcsecond astrometry with long baseline optical interferometry. Application to the GRAVITY instrument

Lacour, S., Eisenhauer, F., Gillessen, S., Pfuhl, O., Woillez, J., Bonnet, H., Perrin, G., Lazareff, B., Rabien, S., Lapeyrière, V., Clénet, Y., Kervella, P., & Kok, Y., 2014, A&A, 567, 75 [ADS]

Bulge Growth and Quenching since $z = 2.5$ in CANDELS/3D-HST

Lang, P., Wuyts, S., Somerville, R.S., Förster Schreiber, N.M., Genzel, R., Bell, E.F., Brammer, G., Dekel, A., Faber, S.M., Ferguson, H.C., Grogin, N.A., Kocevski, D.D., Koekemoer, A.M., Lutz, D., McGrath, E.J., Momcheva, I., Nelson, E.J., Primack, J.R., Rosario, D.J., Skelton, R.E., Tacconi, L.J., van Dokkum, P.G., & Whitaker, K.E., 2014, ApJ, 788, 11 [ADS]

On the crucial cluster Andrews-Lindsay 1 and a 4% distance solution for its planetary nebula

Majaess, D., Carraro, G., Moni Bidin, C., Bonatto, C., Turner, D., Moyano, M., Berdnikov, L., & Giorgi, E., 2014, A&A, 567, 1 [ADS]

GRB 120711A: an intense INTEGRAL burst with long-lasting soft γ -ray emission and a powerful optical flash

Martin-Carrillo, A., Hanlon, L., Topinka, M., LaCluyzé, A.P., Savchenko, V., Kann, D.A., Trotter, A.S., Covino, S., Krühler, T., Greiner, J., McGlynn, S., Murphy, D., Tisdall, P., Meehan, S., Wade, C., McBreen, B., Reichart, D.E., Fugazza, D., Haislip, J.B., Rossi, A., Schady, P., Elliott, J., & Klose, S., 2014, A&A, 567, 84 [ADS]

Grain growth in the envelopes and disks of Class I protostars

Miotello, A., Testi, L., Lodato, G., Ricci, L., Rosotti, G., Brooks, K., Maury, A., & Natta, A., 2014, A&A, 567, 32 [ADS]

Planck intermediate results. XV. A study of anomalous microwave emission in Galactic clouds

Planck Collaboration, P.C., Ade, P.A.R., Aghanim, N., Alves, M.I.R., Arnaud, M., Atrio-Barandela, F., Aumont, J., Baccigalupi, C., Banday, A.J., Barreiro, R.B., 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., Burigana, C., Cardoso, J.-F., Casassus, S., Catalano, A., Chamballu, A., Chen, X., Chiang, H.C., Chiang, L.-Y., Christensen, P.R., Clements, D.L., Colombi, S., Colombo, L.P.L., Couchot, F., Crill, B.P., Cuttaia, F., Danese, L., Davies, R.D., Davis, R.J., de Bernardis, P., de Rosa, A., de Zotti, G., Delabrouille, J., Désert, F.-X., Dickinson, D., Diego, J.M., Donzelli, S., Doré, O., Dupac, X., EnBlin, T.A., Eriksen, H.K., Finelli, F., Forni, O., Franceschi, E., Galeotta, S., Ganga, K., Génova-Santos, R.T., Ghosh, T., Giard, M., González-Nuevo, J., Górski, K.M., Gregorio, A., Gruppiso, A., Hansen, F.K., Harrison, D.L., Helou, G., Hernández-Monteagudo, C., Hildebrandt, S.R., Hivon, E., Hobson, M., Hornstrup, A., Jaffe, A.H., Jaffe, T.R., Jones, W.C., Keihänen, E., Keskitalo, R., Kneissl, R., Knoche, J., Kunz, M., Kurki-Suonio, H., Lähteenmäki, A., Lamarre, J.-M., Lasenby, A., Lawrence, C.R., Leonardi, R., Liguori, M., Lilje, P.B., Linden-Vørnle, M., López-Cañiego, M., Macías-Pérez, J.F., Maffei, B., Maino, D., Mandolesi, N., Marshall, D.J., Martin, P.G., Martínez-González, E., Masi, S., Massardi, M., Matarrese, S., Mazzotta, P., Meinhold, P.R., Melchiorri, A., Mendes, L., Mennella, A., Migliaccio, M., Miville-Deschênes, M.-A., Moneti, A., Montier, L., Morgante, G., Mortlock, D., Munshi, D., Naselsky, P., Nati, F., Natoli, P., Nørgaard-Nielsen, H.U., Noviello, F., Novikov, D., Novikov, I., Oxborrow, C.A., Pagano, L., Pajot, F., Paladini, R., Paoletti, D., Patanchon, G., Pearson, T.J., Peel, M., Perdereau, O., Perrotta, F., Piacentini, F., Piat, M., Pierpaoli, E., Pietrobon, D., Plaszczyński, S., Pointecouteau, S., Polenta, G., Ponthieu, N., Popa, L., Pratt, G.W., Prunet, S., Puget, J.-L., Rachen, J.P., Rebolo, R., Reich, W., Reinecke, M., Remazeilles, M., Renault, C., Ricciardi, S., Riller, T., Ristorcelli, I., Rocha, G., Rosset, C., Roudier, G., Rubiño-Martín, J.A., Rusholme, B., Sandri, M., Savini, G., Scott, D., Spencer, L.D., Stolyarov, V., Sutton, D., Suur-Uski, A.-S., Sygnet, J.-F., Tauber, J.A., Tavagnacco, D., Terenzi, L., Tibbs, C.T., Toffolatti, L., Tomasi, M., Tristram, M., Tucci, M.,

Valenziano, L., Valiviita, J., Van Tent, B., Varis, J., Verstraete, L., Vielva, P., Villa, F., Wandelt, B.D., Watson, R., Wilkinson, A., Ysard, N., Yvon, D., Zacchei, A., Zonca, A., 2014, A&A, 565, 103 [[ADS](#)]

Herschel-ATLAS: properties of dusty massive galaxies at low and high redshifts

Rowlands, K., Dunne, L., Dye, S., Aragón-Salamanca, A., Maddox, S., da Cunha, E., Smith, D.J.B., Bourne, N., Eales, S., Gomez, H.L., Smail, I., Alpaslan, M., Clark, C.J.R., Driver, S., Ibar, E., **Iverson, R.J.**, Robotham, A., Smith, M.W.L., & Valiante, E., 2014, MNRAS, 441, 1017 [[ADS](#)]

Stellar magnetism: empirical trends with age and rotation

Vidotto, A.A., Gregory, S.G., Jardine, M., Donati, J.F., Petit, P., Morin, J., Folsom, C.P., Bouvier, J., Cameron, A.C., **Hussain, G.**, Marsden, S., Waite, I.A., Fares, R., Jeffers, S., & do Nascimento, J.D., 2014, MNRAS, 441, 2361 [[ADS](#)]

An Optical-Near-IR Study of a Triplet of Super Star Clusters in the Starburst Core of M82

Westmoquette, M.S., Bastian, N., Smith, L.J., Seth, A.C., Gallagher, J.S.I., O'Connell, R.W., Ryon, J.E., Silich, S., Mayya, Y.D., Muñoz-Tuñón, C., & Rosa González, D., 2014, ApJ, 789, 94 [[ADS](#)]

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