

## ESO staff papers 11/2014

Papers added recently to the ESO Telescope Bibliography, maintained by the library

Subscribe to the [ESO telbib RSS feed](#) 

[Cosmology](#) | [Galaxies and Galactic Nuclei](#) | [Interstellar Medium, Star Formation and Planetary Systems](#) | [Stellar Evolution](#) | [Miscellaneous](#) | [Papers without ESO data](#)

### Cosmology

#### [ALLSMOG: an APEX Low-redshift Legacy Survey for MOlecular Gas - I. Molecular gas scaling relations, and the effect of the CO/H2 conversion factor](#)

Bothwell, M.S., **Wagg, J.**, Cicone, C., Maiolino, R., **Møller, P.**, **Aravena, M.**, **De Breuck, C.**, Peng, Y., Espada, D., Hodge, J.A., Impellizzeri, C.M.V., Martín, S., Riechers, D., & Walter, F., 2014, MNRAS, 445, 2599 [[ADS](#)]  
*Instruments:* SHFI

#### [Galaxy And Mass Assembly: Deconstructing Bimodality - I. Red ones and blue ones](#)

Taylor, E.N., Hopkins, A.M., Baldry, I.K., Bland-Hawthorn, J., Brown, M.J.I., Colless, M., Driver, S., Norberg, P., Robotham, A.S.G., Alpaslan, M., Brough, S., Cluver, M.E., Gunawardhana, M., Kelvin, L.S., **Liske, J.**, Conselice, C.J., Croom, S., Foster, C., Jarrett, T.H., Lopez, M.L., & Loveday, J., 2014, arXiv, 1408, 5984 [[ADS](#)]  
*Instruments:* VIRCAM

### Galaxies and Galactic Nuclei

#### [Fueling Active Galactic Nuclei. II. Spatially Resolved Molecular Inflows and Outflows](#)

Davies, R.I., Maciejewski, W., Hicks, E.K.S., **Emsellem, E.**, Erwin, P., Burtscher, L., Dumas, G., Lin, M., Malkan, M.A., Müller-Sánchez, F., Orban de Xivry, G., Rosario, D.J., Schnorr-Müller, A., & Tran, A., 2014, ApJ, 792, 101 [[ADS](#)]  
*Instruments:* SINFONI

#### [The Norma Arm Region Chandra Survey Catalog: X-Ray Populations in the Spiral Arms](#)

Fornasini, F.M., Tomsick, J.A., Bodaghee, A., Krivonos, R.A., An, H., **Rahoui, F.**, Gotthelf, E.V., Bauer, F.E., & Stern, D., 2014, ApJ, 796, 105 [[ADS](#)]  
*Instruments:* VIRCAM

#### [The VMC Survey. XII. Star cluster candidates in the Large Magellanic Cloud](#)

Piatti, A.E., Guandalini, R., **Ivanov, V.D.**, Rubele, S., Cioni, M.-R.L., de Grijs, R., For, B.-Q., Clementini, G., Ripepi, V., Anders, P., Oliveira, J.M., 2014, A&A, 570, A74 [[ADS](#)]  
*Instruments:* VIRCAM

#### [Two candidate brown dwarf companions around core helium-burning stars](#)

Schaffenroth, V., Classen, L., Nagel, K., **Geier, S.**, Koen, C., Heber, U., & Edelmann, H., 2014, A&A, 570, A70 [[ADS](#)]  
*Instruments:* FEROS

#### [The Gaia-ESO Survey: The analysis of high-resolution UVES spectra of FGK-type stars](#)

**Smiljanic, R.**, Korn, A.J., Bergemann, M., Frasca, A., Magrini, L., Masseron, T., Pancino, E., Ruchti, G., San Roman, I., Sbordone, L., Sousa, S.G., Tabernero, H., Tautvaišienė, G., Valentini, M., Weber, M., Worley, C.C., Adibekyan, V.Z., Allende Prieto, C., Barisevičius, G., Biazzo, K., Blanco-Cuaresma, S., Bonifacio, P., Bragaglia, A., Caffau, E., Cantat-Gaudin, T., Chorniy, Y., de Laverny, P., Delgado-Mena, E., Donati, P., Duffau, S., Franciosini, E., Friel, E., Geisler, D., González Hernández, J.I., Gruyters, P., Guiglion, G., Hansen, C.J., Heiter, U., Hill, V., Jacobson, H.R., Jofre, P., Jönsson, H., Lanzafame, A.C., Lardo, C., Ludwig, H.-G., Maiorca, E., Mikolaitis, Š., Montes, D., Morel, T., Mucciarelli, A., Muñoz, C., Nordlander, T., **Pasquini, L.**, Puzeras, E., Recio-Blanco, A., Ryde, N., Sacco, G., Santos, N.C., Serenelli, A.M., Sordo, R., Soubiran, C., Spina, L., Steffen, M., Vallenari, A., Van Eck, S., Villanova, S., Gilmore, G., Randich, S., Asplund, M., Binney, J., Drew, J., Feltzing, S., Ferguson, A., Jeffries, R., Micela, G., Negueruela, I., Prusti, T., Rix, H.-W., Alfaro, E., Babusiaux, C., Bensby, T., Blomme, R., Flaccomio, E., François, P., Irwin, M., Koposov, S., Walton, N., Bayo, A., **Carraro, G.**, Costado, M.T., Damiani, F., Edvardsson, B., Hourihane, A., Jackson, R., Lewis, J., Lind, K., **Marconi, G.**, **Martayan, C.**, **Monaco, L.**, Morbidelli, L., Prisinzano, L., Zaggia, S., 2014, A&A, 570, A122 [[ADS](#)]  
*Instruments:* FLAMES, GIRAFFE, UVES

## Interstellar Medium, Star Formation and Planetary Systems

### [Linear spectropolarimetry: a new diagnostic tool for the classification and characterization of asteroids](#)

Bagnulo, S., Cellino, A., & Sterzik, M.F., 2015, MNRAS, 446, L11 [[ADS](#)]

*Instruments:* FORS2

### [Deep Thermal Infrared Imaging of HR 8799 bcde: New Atmospheric Constraints and Limits on a Fifth Planet](#)

Currie, T., Burrows, A., Girard, J.H., Cloutier, R., Fukagawa, M., Sorahana, S., Kuchner, M., Kenyon, S.J., Madhusudhan, N., Itoh, Y., Jayawardhana, R., Matsumura, S., & Pyo, T.-S., 2014, ApJ, 795, 133 [[ADS](#)]

*Instruments:* NACO

### [A near-infrared interferometric survey of debris-disk stars. IV. An unbiased sample of 92 southern stars observed in H band with VLTI/PIONIER](#)

Ertel, S., Absil, O., Defrère, D., Le Bouquin, J.-B., Augereau, J.-C., Marion, L., Blind, N., Bonsor, A., Bryden, G., Lebreton, J., Milli, J., 2014, A&A, 570, A128 [[ADS](#)]

*Instruments:* PIONIER

### [Searching for faint companions with VLTI/PIONIER. II. 92 main sequence stars from the Exozodi survey](#)

Marion, L., Absil, O., Ertel, S., Le Bouquin, J.-B., Augereau, J.-C., Blind, N., Defrère, D., Lebreton, J., Milli, J., 2014, A&A, 570, A127 [[ADS](#)]

*Instruments:* PIONIER

### [Southern Massive Stars at High Angular Resolution: Observational Campaign and Companion Detection](#)

Sana, H., Le Bouquin, J.-B., Lacour, S., Berger, J.-P., Duvert, G., Gauchet, L., Norris, B., Olofsson, J., Pickel, D., Zins, G., Absil, O., de Koter, A., Kratter, K., Schnurr, O., Zinnecker, H., 2014, ApJS, 215, 15 [[ADS](#)]

*Instruments:* NACO, PIONIER

### [ATLASGAL - towards a complete sample of massive star forming clumps](#)

Urquhart, J.S., Moore, T.J.T., Csengeri, T., Wyrowski, F., Schuller, F., Hoare, M.G., Lumsden, S.L., Mottram, J.C., Thompson, M.A., Menten, K.M., Walmsley, C.M., Bronfman, L., Palfzner, S., König, C., & Wienen, M., 2014, MNRAS, 443, 1555 [[ADS](#)]

*Instruments:* LABOCA

### [ATLASGAL - Complete compact source catalogue: \$280^\circ < \ell < 60^\circ\$](#)

Urquhart, J.S., Csengeri, T., Wyrowski, F., Schuller, F., Bontemps, S., Bronfman, L., Menten, K.M., Walmsley, C.M., Contreras, Y., Beuther, H., Wienen, M., & Linz, H., 2014, A&A, 568, A41 [[ADS](#)]

*Instruments:* LABOCA

## Stellar Evolution

### [The extended structure of the dwarf irregular galaxy Sagittarius](#)

Beccari, G., Bellazzini, M., Fraternali, F., Battaglia, G., Perina, S., Sollima, A., Oosterloo, T.A., Testa, V., & Galletti, S., 2014, A&A, 570, A78 [[ADS](#)]

*Instruments:* VIMOS

### [Chemical abundances of the metal-poor horizontal-branch stars CS 22186-005 and CS 30344-033](#)

Çalışkan, Ş., Caffau, E., Bonifacio, P., Christlieb, N., Monaco, L., Beers, T.C., Albayrak, B., & Sbordone, L., 2014, A&A, 571, A62 [[ADS](#)]

*Instruments:* HARPS, UVES

### [Near-infrared spectroscopy of candidate red supergiant stars in clusters](#)

Messineo, M., Zhu, Q., Ivanov, V.D., Figuer, D.F., Davies, B., Menten, K.M., Kudritzki, R.P., & Chen, C.-H.R., 2014, A&A, 571, A43 [[ADS](#)]

*Instruments:* SOFI

### [Weak magnetic fields in central stars of planetary nebulae?](#)

Steffen, M., Hubrig, S., Todt, H., Schöller, M., Hamann, W.-R., Sandin, C., Schönberner, D., 2014, A&A, 570, A88

[[ADS](#)]

Instruments: FORS2

## Miscellaneous

### [MUSE sneaks a peek at extreme ram-pressure stripping events - I. A kinematic study of the archetypal galaxy ESO137-001](#)

Fumagalli, M., Fossati, M., **Hau, G.K.T.**, Gavazzi, G., Bower, R., Sun, M., & Boselli, A., 2014, MNRAS, 445, 4335

[[ADS](#)]

Instruments: MUSE

### [Flux calibration of medium-resolution spectra from 300 nm to 2500 nm: Model reference spectra and telluric correction](#)

**Moehler, S., Modigliani, A., Freudling, W.**, Giammichele, N., Gianninas, A., Gonneau, A., Kausch, W., Langon, A., Noll, S., Rauch, T., & **Vinther, J.**, 2014, A&A, 568, A9 [[ADS](#)]

Instruments: XSHOOTER

### [MUSE observations of the lensing cluster SMACSJ2031.8-4036: new constraints on the mass distribution in the cluster core](#)

Richard, J., Patricio, V., Martinez, J., Bacon, R., Clément, B., Weilbacher, P., Soto, K., Wisotzki, L., **Vernet, J.**, Pello, R., Schaye, J., Turner, M., & Martinsson, T., 2015, MNRAS, 446, L16 [[ADS](#)]

Instruments: MUSE

### [Filamentary structure and Keplerian rotation in the high-mass star-forming region G35.03+0.35 imaged with ALMA](#)

Beltrán, M.T., Sánchez-Monge, Á., Cesaroni, R., Kumar, M.S.N., Galli, D., Walmsley, C.M., Etoka, S., Furuya, R.S., Moscadelli, L., **Stanke, T.**, van der Tak, F.F.S., Vig, S., Wang, K.-S., Zinnecker, H., Elia, D., Schisano, E., 2014, A&A, 571, A52 [[ADS](#)]

Instruments: ALMA\_Bands

### [The wonderful complexity of the Mira AB system](#)

Ramstedt, S., Mohamed, S., Vlemmings, W.H.T., Maercker, M., Montez, R., Baudry, A., De Beck, E., Lindqvist, M., Olofsson, H., **Humphreys, E.M.L.**, Jorissen, A., Kerschbaum, F., Mayer, A., **Wittkowski, M.**, Cox, N.L.J., Lagadec, E., Leal-Ferreira, M.L., Paladini, C., Pérez-Sánchez, A., & Sacuto, S., 2014, A&A, 570, L14 [[ADS](#)]

Instruments: ALMA\_Bands

## Papers without ESO data

### **Stellar occultation by (119951) 2002 KX14 on April 26, 2012**

**Alvarez-Candal, A.**, Ortiz, J.L., Morales, N., Jiménez-Teja, Y., Duffard, R., Sicardy, B., Dhillon, V.S., Marsh, T., Littlefair, S., Mottola, S., Hellmich, S., & Shahbaz, T., 2014, A&A, 571, A48 [[ADS](#)]

### **Photometric and spectroscopic observations, and abundance tomography modelling of the Type Ia supernova SN 2014J located in M82**

Ashall, C., Mazzali, P., Bersier, D., Hachinger, S., Phillips, M., Percival, S., James, P., & **Maguire, K.**, 2014, MNRAS, 445, 4427 [[ADS](#)]

### **Outflows, Dusty Cores, and a Burst of Star Formation in the North America and Pelican Nebulae**

Bally, J., **Ginsburg, A.**, Probst, R., Reipurth, B., Shirley, Y.L., & Stringfellow, G.S., 2014, AJ, 148, 120 [[ADS](#)]

### **A Census of Star-forming Galaxies in the $Z \sim 9-10$ Universe based on HST+Spitzer Observations over 19 Clash Clusters: Three Candidate $Z \sim 9-10$ Galaxies and Improved Constraints on the Star Formation Rate Density at $Z \sim 9.2$**

Bouwens, R.J., Bradley, L., Zitrin, A., Coe, D., Franx, M., Zheng, W., Smit, R., Host, O., Postman, M., Moustakas, L., Labbé, I., Carrasco, M., Molino, A., Donahue, M., Kelson, D.D., Meneghetti, M., Benítez, N., Lemze, D., Umetsu, K., Broadhurst, T., Moustakas, J., **Rosati, P.**, Jouvel, S., Bartelmann, M., Ford, H., Graves, G., Grillo, C., Infante, L., Jimenez-Teja, Y., Lahav, O., Maoz, D., Medezinski, E., Melchior, P., Merten, J., Nonino, M., Ogaz, S., & Seitz, S., 2014, ApJ, 795, 126 [[ADS](#)]

**Systematic variation of the 12CO/13CO ratio as a function of star formation rate surface density**  
**Davis, T.A.**, 2014, MNRAS, 445, 2378 [[ADS](#)]

**ULTRASPEC: a high-speed imaging photometer on the 2.4-m Thai National Telescope**

Dhillon, V.S., Marsh, T.R., Atkinson, D.C., Bezawada, N., Bours, M.C.P., Copperwheat, C.M., Gamble, T., Hardy, L.K., Hickman, R.D.H., Irawati, P., **Ives, D.J.**, Kerry, P., Leckngam, A., Littlefair, S.P., **McLay, S.A.**, O'Brien, K., Peacocke, P.T., Poshyachinda, S., Richichi, A., Soonthornthum, B., & Vick, A., 2014, MNRAS, 444, 3504 [[ADS](#)]

**The ATLAS3D project - XXIX. The new look of early-type galaxies and surrounding fields disclosed by extremely deep optical images**

Duc, P.-A., Cuillandre, J.-C., **Karabal, E.**, Cappellari, M., Alatalo, K., Blitz, L., Bournaud, F., Bureau, M., Crocker, A.F., Davies, R.L., **Davis, T.A.**, **de Zeeuw, P.T.**, **Emsellem, E.**, Khochfar, S., Krajnović, D., **Kuntschner, H.**, McDermid, R.M., Michel-Dansac, L., Morganti, R., Naab, T., Oosterloo, T., Paudel, S., Sarzi, M., Scott, N., Serra, P., Weijmans, A.-M., Young, L.M., 2015, MNRAS, 446, 120 [[ADS](#)]

**Constraints on photoevaporation models from (lack of) radio emission in the Corona Australis protoplanetary disks**

**Galván-Madrid, R.**, Liu, H.B., **Manara, C.F.**, Forbrich, J., Pascucci, I., Carrasco-González, C., Goddi, C., Hasegawa, Y., Takami, M., & **Testi, L.**, 2014, A&A, 570, L9 [[ADS](#)]

**Reliable inference of exoplanet light-curve parameters using deterministic and stochastic systematics models**

**Gibson, N.P.**, 2014, MNRAS, 445, 3401 [[ADS](#)]

**Defining Photometric Peculiar Type Ia Supernovae**

González-Gaitán, S., Hsiao, E.Y., Pignata, G., Förster, F., Gutiérrez, C.P., Bufano, F., Galbany, L., Folatelli, G., Phillips, M.M., Hamuy, M., **Anderson, J.P.**, & **de Jaeger, T.**, 2014, ApJ, 795, 142 [[ADS](#)]

**Discovery of X-Ray Pulsations from the INTEGRAL Source IGR J11014–6103**

Halpern, J.P., Tomsick, J.A., Gotthelf, E.V., Camilo, F., Ng, C.-Y., Bodaghee, A., Rodriguez, J., Chaty, S., **Rahoui, F.**, 2014, ApJ, 795, L27 [[ADS](#)]

**Interpreting the extended emission around three nearby debris disc host stars**

Marshall, J.P., Kirchsclager, F., **Ertel, S.**, Augereau, J.-C., Kennedy, G.M., Booth, M., Wolf, S., Montesinos, B., Eiroa, C., Matthews, B., 2014, A&A, 570, A114 [[ADS](#)]

**The formation of the W43 complex: constraining its atomic-to-molecular transition and searching for colliding clouds**

Motte, F., Nguyễn Luong, Q., Schneider, N., Heitsch, F., Glover, S., Carlhoff, P., **Hill, T.**, Bontemps, S., Schilke, P., Louvet, F., Hennemann, M., Didelon, P., & Beuther, H., 2014, A&A, 571, A32 [[ADS](#)]

**A simplified view of blazars: the very high energy  $\gamma$ -ray vision**

**Padovani, P.**, & Giommi, P., 2015, MNRAS, 446, L41 [[ADS](#)]

**The difference in age of the two counter-rotating stellar disks of the spiral galaxy NGC 4138**

Pizzella, A., Morelli, L., Corsini, E.M., Dalla Bontà, E., **Cocato, L.**, & Sanjana, G., 2014, A&A, 570, A79 [[ADS](#)]

**Time-resolved infrared emission from radiation-driven central obscuring structures in active galactic nuclei**

Schartmann, M., Wada, K., Prieto, M.A., Burkert, A., & **Tristram, K.R.W.**, 2014, MNRAS, 445, 3878 [[ADS](#)]

**KIC 7668647: a 14 day beaming sdB+WD binary with a pulsating subdwarf**

Telting, J.H., Baran, A.S., Nemeth, P., Østensen, R.H., Kupfer, T., Macfarlane, S., Heber, U., Aerts, C., & **Geier, S.**, 2014, A&A, 570, A129 [[ADS](#)]

**An unbiased study of debris discs around A-type stars with Herschel**

Thureau, N.D., Greaves, J.S., Matthews, B.C., Kennedy, G., **Phillips, N.**, Booth, M., Duchêne, G., Horner, J., Rodriguez, D.R., Sibthorpe, B., & Wyatt, M.C., 2014, MNRAS, 445, 2558 [[ADS](#)]

**C IV and C III] Reverberation Mapping of the Luminous Quasar PG 1247+267**

Trevese, D., Perna, M., Vagnetti, F., **Saturni, F.G.**, & Dadina, M., 2014, ApJ, 795, 164 [[ADS](#)]

**Suppression of cooling by strong magnetic fields in white dwarf stars**

Valyavin, G., Shulyak, D., Wade, G.A., Antonyuk, K., Zharikov, S.V., Galazutdinov, G.A., Plachinda, S., Bagnulo, S., Fox Machado, L., Alvarez, M., Clark, D.M., Lopez, J.M., Hiriart, D., Han, I., Jeon, Y.-B., Zurita, C., Mujica, R., Burlakova, T., **Szeifert, T.**, Burenkov, A., 2014, Natur, 515, 88 [[ADS](#)]

**The space density of Compton-thick AGN at  $z \approx 0.8$  in the zCOSMOS-Bright Survey**

Vignali, C., Mignoli, M., Gilli, R., Comastri, A., Iwasawa, K., Zamorani, G., **Mainieri, V.**, & Bongiorno, A., 2014, A&A, 571, A34 [[ADS](#)]

**The Slow Ionized Wind and Rotating Disklike System that are Associated with the High-mass Young Stellar Object G345.4938+01.4677**

Guzmán, A.E., Garay, G., Rodríguez, L.F., Moran, J., Brooks, K.J., Bronfman, L., Nyman, L.-Å., Sanhueza, P., Mardones, D., 2014, ApJ, 796, 117 [[ADS](#)]

**Turbulence Sets the Initial Conditions for Star Formation in High-pressure Environments**

Rathborne, J.M., Longmore, S.N., Jackson, J.M., Kruijssen, J.M.D., Alves, J.F., Bally, J., Bastian, N., Contreras, Y., Foster, J.B., Garay, G., **Testi, L.**, & Walsh, A.J., 2014, ApJ, 795, L25 [[ADS](#)]

Older issues can be found on the [library website](#).