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### Cosmology

#### [Evolution of the observed Ly \$\alpha\$ luminosity function from \$z = 6.5\$ to \$z = 7.7\$ : evidence for the epoch of reionization?](#)

Clément, B., Cuby, J.-G., Courbin, F., Fontana, A., **Freudling, W.**, Fynbo, J., Gallego, J., Hibon, P., Kneib, J.-P., Le Fèvre, O., Lidman, C., McMahon, R., Milvang-Jensen, B., **Moller, P.**, **Moorwood, A.**, **Nilsson, K.K.**, Pentericci, L., **Venemans, B.**, Villar, V., Willis, J., 2012, A&A, 538, 66 [\[ADS\]](#)

*Instruments:* ISAAC, ISAAC, ISAAC, ISAAC, HAWK-I, HAWK-I, HAWK-I, X-SHOOTER

#### [The Cosmic Web and galaxy evolution around the most luminous X-ray cluster: RX J1347.5-1145](#)

Verdugo, M., Lerchster, M., Böhringer, H., Hildebrandt, H., **Ziegler, B.L.**, Erben, T., Finoguenov, A., & Chon, G., 2012, MNRAS, 421, 1949 [\[ADS\]](#)

*Instruments:* VIMOS, VIMOS

#### [MASSIV: Mass Assembly Survey with SINFONI in VVDS. IV. Fundamental relations of star-forming galaxies at 1](#)

[Vergani, D.](#), [Epinat, B.](#), [Contini, T.](#), [Tasca, L.](#), [Tresse, L.](#), [Amram, P.](#), [Garilli, B.](#), **Kissler-Patig, M.**, [Le Fevre, O.](#), [Moultaka, J.](#), [Paoro, L.](#), [Queyrel, J.](#), & [Lopez-Sanjuan, C.](#), 2012, arXiv, 1202, 3107 [\[ADS\]](#)

*Instruments:* SINFONI, SINFONI, SINFONI, VIMOS, VIMOS

### Galaxies and Galactic Nuclei

#### [The VMC survey. III. Mass-loss rates and luminosities of LMC AGB stars](#)

Gullieuszik, M., Groenewegen, M.A.T., Cioni, M.-R.L., de Grijs, R., van Loon, J.T., Girardi, L., **Ivanov, V.D.**, Oliveira, J.M., Emerson, J.P., Guandalini, R., 2012, A&A, 537, 105 [\[ADS\]](#)

*Instruments:* VIRCAM

#### [The VMC survey. IV. The LMC star formation history and disk geometry from four VMC tiles](#)

Rubele, S., Kerber, L., Girardi, L., Cioni, M.-R., Marigo, P., Zaggia, S., Bekki, K., de Grijs, R., Emerson, J., Groenewegen, M.A.T., Gullieuszik, M., **Ivanov, V.**, Miszalski, B., Oliveira, J.M., Tatton, B., van Loon, J.T., 2012, A&A, 537, 106 [\[ADS\]](#)

*Instruments:* VIRCAM

#### [VVV DR1: The first data release of the Milky Way bulge and southern plane from the near-infrared ESO public survey VISTA variables in the Vía Láctea](#)

Saito, R.K., Hempel, M., Minniti, D., Lucas, P.W., **Rejkuba, M.**, Toledo, I., **Gonzalez, O.A.**, Alonso-García, J., Irwin, M.J., Gonzalez-Solares, E., Hodgkin, S.T., Lewis, J.R., Cross, N., **Ivanov, V.D.**, Kerins, E., Emerson, J.P., Soto, M., Amôres, E.B., Gurovich, S., Dékány, I., Angeloni, R., Beamin, J.C., Catelan, M., Padilla, N., Zoccali, M., Pietrukowicz, P., Moni Bidin, C., Mauro, F., Geisler, D., Folkes, S.L., Sale, S.E., Borissova, J., Kurtev, R., **Ahumada, A.V.**, Alonso, M.V., Adamson, A., Arias, J.I., Bandyopadhyay, R.M., Barbá, R.H., Barbuy, B., Baume, G.L., Bedin, L.R., Bellini, A., Benjamin, R., Bica, E., Bonatto, C., Bronfman, L., **Carraro, G.**, Chenè, A.N., Clariá, J.J., Clarke, J.R.A., Contreras, C., Corvillón, A., de Grijs, R., Dias, B., Drew, J.E., Fariña, C., Feinstein, C., Fernández-Lajús, E., Gamen, R.C., Gieren, W., Goldman, B., González-Fernández, C., Grand, R.J.J., Gunthardt, G., Hambly, N.C., Hanson, M.M., Hełminiak, K.G., Hoare, M.G., Huckvale, L., Jordán, A., Kinemuchi, K., Longmore, A., López-Corredoira, M., Maccarone, T., Majaess, D., Martín, E.L., Masetti, N., Mennickent, R.E., Mirabel, I.F., **Monaco, L.**, Morelli, L., Motta, V., Palma, T., Parisi, M.C., Parker, Q., Peñalosa, F., Pietrzyński, G., Pignata, G., Popescu, B., Read, M.A., Rojas, A., Roman-Lopes, A., Ruiz, M.T., **Saviane, I.**, Schreiber, M.R., Schröder, A.C., Sharma, S., Smith, M.D., Sodrè, L., Stead, J., Stephens, A.W., Tamura, M., Tappert, C., Thompson, M.A., **Valenti, E.**, Vanzi, L., Walton, N.A., Weidmann, W., & Zijlstra, A., 2012, A&A, 537, 107 [\[ADS\]](#)

*Instruments:* VIRCAM

### Interstellar Medium, Star Formation and Planetary Systems

#### [Planetary transit candidates in the CoRoT LRA01 field](#)

Carone, L., Gandolfi, D., Cabrera, J., Hatzes, A.P., Deeg, H.J., Cszizmadia, S., Pätzold, M., Weingrill, J., Aigrain, S., Alonso, R., Alapini, A., Almenara, J.-M., Auvergne, M., Baglin, A., Barge, P., Bonomo, A.S., Bordé, P., Bouchy, F., Bruntt, H., Carpano, S., Cochran, W.D., Deleuil, M., Díaz, R.F., Dreizler, S., Dvorak, R., Eislöffel, J., Eigmüller, P., Endl, M., Erikson, A., Ferraz-Mello, S., Fridlund, M., Gazzano, J.-C., Gibson, N., Gillon, M., Gondoin, P., Grziwa, S., Günther, E.W., Guillot, T., Hartmann, M., Havel, M., Hébrard, G., Jorda, L., **Kabath, P.**, Léger, A., Llebaria, A., Lammer, H., Lovis, C., MacQueen, P.J., Mayor, M., Mazeh, T., Moutou, C., Nortmann, L., Ofir, A., Ollivier, M., Parviainen, H., Pepe, F., Pont, F., Queloz, D., Rabus, M., Rauer, H., Régulo, C., Renner, S., de La Reza, R., Rouan, D., Santerne, A., Samuel, B., Schneider, J., Shporer, A., Stecklum, B., Tal-Or, L., Tingley, B., Udry, S., Wuchterl, G., 2012, A&A, 538, 112 [\[ADS\]](#)

*Instruments:* NACO, UVES, FLAMES-GIRAFFE, HARPS, HARPS, HARPS, CRIRES

#### [One or more bound planets per Milky Way star from microlensing observations](#)

Cassan, A., **Kubas, D.**, Beaulieu, J.-P., Dominik, M., Horne, K., Greenhill, J., Wambsganss, J., Menzies, J., Williams, A., Jørgensen, U.G., Udalski, A., Bennett, D.P., Albrow, M.D., Batista, V., **Brilliant, S.**, Caldwell, J.A.R., Cole, A., Coutures, C., Cook, K.H., Dieters, S., Prester, D.D., Donatowicz, J., Fouqué, P., Hill, K., **Kains, N.**, Kane, S., Marquette, J.-B., Martin, R., Pollard, K.R., Sahu, K.C., Vinter, C., Warren, D., Watson, B., Zub, M., Sumi, T., Szymański, M.K., Kubiak, M., Poleski, R., Soszynski, I., Ulaczyk, K., Pietrzyński, G., Wyrzykowski, Ł., 2012, *Natur*, 481, 167 [[ADS](#)]  
*Instruments:* NACO, NACO, NACO, WFI

#### **G0.253 + 0.016: A Molecular Cloud Progenitor of an Arches-like Cluster**

**Longmore, S.N.**, Rathborne, J., Bastian, N., Alves, J., **Ascenso, J.**, Bally, J., **Testi, L.**, Longmore, A., Battersby, C., **Bressert, E.**, Purcell, C., Walsh, A., Jackson, J., Foster, J., Molinari, S., Meingast, S., Amorim, A., Lima, J., Marques, R., Moitinho, A., Pinhao, J., Rebordao, J., & Santos, F.D., 2012, *ApJ*, 746, 117 [[ADS](#)]  
*Instruments:* NACO

#### **VLTI/AMBER observations of the binary B[e] supergiant HD 327083**

Wheelwright, H.E., **de Wit, W.J.**, Oudmaijer, R.D., & Vink, J.S., 2012, *A&A*, 538, 6 [[ADS](#)]  
*Instruments:* AMBER

## **Stellar Evolution**

#### **Spectra probing the number ratio of C- to M-type AGB stars in the NGC 6822 galaxy**

**Kacharov, N.**, **Rejkuba, M.**, & Cioni, M.-R.L., 2012, *A&A*, 537, 108 [[ADS](#)]  
*Instruments:* VIMOS

#### **A search for magnetic fields in cool sdB stars**

**Mathys, G.**, Hubrig, S., Mason, E., Michaud, G., **Schöller, M.**, & Wesemael, F., 2012, *AN*, 333, 30 [[ADS](#)]  
*Instruments:* FORS2, FORS2

#### **SN 2009E: a faint clone of SN 1987A**

Pastorello, A., Pumo, M.L., Navasardyan, H., Zampieri, L., Turatto, M., Sollerman, J., Taddia, F., Kankare, E., Mattila, S., Nicolas, J., Prosperi, E., San Segundo Delgado, A., Taubenberger, S., Boles, T., Bachini, M., Benetti, S., Bufano, F., Cappellaro, E., Cason, A.D., Cetrulo, G., Ergon, M., Germany, L., Harutyunyan, A., Howerton, S., Hurst, G.M., **Patat, F.**, Stritzinger, M., Strolger, L.-G., Wells, W., 2012, *A&A*, 537, 141 [[ADS](#)]  
*Instruments:* EFOSC2\_NTT

#### **Fluorine abundances in dwarf stars of the solar neighbourhood**

Recio-Blanco, A., de Laverny, P., Worley, C., Santos, N.C., **Melo, C.**, & Israelian, G., 2012, *A&A*, 538, 117 [[ADS](#)]  
*Instruments:* FEROS2.2, CRIRES

#### **Advances in the interpretation and analysis of lunar occultation light curves**

**Richichi, A.**, & **Glindemann, A.**, 2012, *A&A*, 538, 56 [[ADS](#)]  
*Instruments:* ISAAC

## **Papers without ESO data**

#### **The unusually large population of Blazhko variables in the globular cluster NGC 5024 (M53)**

Arellano Ferro, A., **Bramich, D.M.**, Figuera Jaimes, R., Giridhar, S., & Kuppuswamy, K., 2012, *MNRAS*, 420, 1333 [[ADS](#)]

#### **Synthetic observations of simulated Pillars of Creation**

Ercolano, B., Dale, J.E., Gritschneider, M., & **Westmoquette, M.**, 2012, *MNRAS*, 420, 141 [[ADS](#)]

#### **Space weathering of Vesta and V-type asteroids: new irradiation experiments on HED meteorites**

Fulvio, D., Brunetto, R., **Vernazza, P.**, & Strazzulla, G., 2012, *A&A*, 537, L11 [[ADS](#)]

#### **T Tauri star magnetic fields and magnetospheres**

**Hussain, G.A.J.**, 2012, *AN*, 333, 4 [[ADS](#)]

#### **Herschel/HIFI observations of O-rich AGB stars: molecular inventory**

Justtanont, K., Khouri, T., **Maercker, M.**, Alcolea, J., Decin, L., Olofsson, H., Schöier, F.L., Bujarrabal, V., Marston, A.P., Teyssier, D., Cernicharo, J., Dominik, C., de Koter, A., Melnick, G., Menten, K.M., Neufeld, D., **Planesas, P.**, Schmidt, M., Szczerba, R., & Waters, R., 2012, *A&A*, 537, 144 [[ADS](#)]

#### **Looking for outflow and infall signatures in high-mass star-forming regions**

**Klaassen, P.D.**, **Testi, L.**, & Beuther, H., 2012, *A&A*, 538, 140 [[ADS](#)]

#### **A deep view on the Virgo cluster core**

**Lieder, S.**, Lisker, T., **Hilker, M.**, **Misgeld, I.**, & Durrell, P., 2012, *A&A*, 538, 69 [[ADS](#)]

#### **Modelling the huge, Herschel-resolved debris ring around HD 207129**

Löhne, T., Augereau, J.-C., Ertel, S., Marshall, J.P., Eiroa, C., Mora, A., Absil, O., Stapelfeldt, K., Thébault, P., **Bayo, A.**, Del

Burgo, C., Danchi, W., Krivov, A.V., Lebreton, J., Letawe, G., Magain, P., Maldonado, J., Montesinos, B., Pilbratt, G.L., White, G.J., & Wolf, S., 2012, A&A, 537, 110 [[ADS](#)]

### **Galaxy and Mass Assembly (GAMA): ugriz galaxy luminosity functions**

Loveday, J., Norberg, P., Baldry, I.K., Driver, S.P., Hopkins, A.M., Peacock, J.A., Bamford, S.P., **Liske, J.**, Bland-Hawthorn, J., Brough, S., Brown, M.J.I., Cameron, E., Conselice, C.J., Croom, S.M., Frenk, C.S., Gunawardhana, M., Hill, D.T., Jones, D.H., Kelvin, L.S., Kuijken, K., Nichol, R.C., Parkinson, H.R., Phillipps, S., Pimblet, K.A., Popescu, C.C., Prescott, M., Robotham, A.S.G., Sharp, R.G., Sutherland, W.J., Taylor, E.N., Thomas, D., Tuffs, R.J., **van Kampen, E.**, & Wijesinghe, D., 2012, MNRAS, 420, 1239 [[ADS](#)]

### **Detecting and modelling the magnetic field of the $\beta$ Cephei star V 2052 Ophiuchi**

Neiner, C., Alecian, E., Briquet, M., Floquet, M., Frémat, Y., **Martayan, C.**, Thizy, O., & Mimes Collaboration, M.C., 2012, A&A, 537, 148 [[ADS](#)]

### **The Impact of Evolving Infrared Spectral Energy Distributions of Galaxies on Star Formation Rate Estimates**

Nordon, R., Lutz, D., Genzel, R., Berta, S., Wuyts, S., Magnelli, B., Altieri, B., **Andreani, P.**, Aussel, H., Bongiovanni, A., Cepa, J., Cimatti, A., Daddi, E., Fadda, D., Förster Schreiber, N.M., Lagache, G., Maiolino, R., Pérez García, A.M., Poglitsch, A., Popesso, P., Pozzi, F., Rodighiero, G., Rosario, D., Saintonge, A., Sanchez-Portal, M., Santini, P., Sturm, E., Tacconi, L.J., Valtchanov, I., & Yan, L., 2012, ApJ, 745, 182 [[ADS](#)]

### **Trapping dust particles in the outer regions of protoplanetary disks**

Pinilla, P., Birnstiel, T., **Ricci, L.**, Dullemond, C.P., Uribe, A.L., **Testi, L.**, & Natta, A., 2012, A&A, 538, 114 [[ADS](#)]

### **Detailed Abundances for M Giants in Two Inner Bulge Fields from Infrared Spectroscopy**

Rich, R.M., Origlia, L., & **Valenti, E.**, 2012, ApJ, 746, 59 [[ADS](#)]

### **Detection of warm water vapour in Taurus protoplanetary discs by Herschel**

Riviere-Marichalar, P., Ménard, F., Thi, W.F., Kamp, I., Montesinos, B., Meeus, G., Woitke, P., Howard, C., Sandell, G., Podio, L., **Dent, W.R.F.**, Mendigutía, I., Pinte, C., White, G.J., & Barrado, D., 2012, A&A, 538, L3 [[ADS](#)]

### **Kinematic properties of the field elliptical NGC 7507**

**Salinas, R.**, Richtler, T., Bassino, L.P., Romanowsky, A.J., & Schuberth, Y., 2012, A&A, 538, 87 [[ADS](#)]

### **Microlensing Binaries Discovered through High-magnification Channel**

Shin, I.-G., Choi, J.-Y., Park, S.-Y., Han, C., Gould, A., Sumi, T., Udalski, A., Beaulieu, J.-P., Dominik, M., Allen, W., Bos, M., Christie, G.W., Depoy, D.L., Dong, S., Drummond, J., Gal-Yam, A., Gaudi, B.S., Hung, L.-W., Janczak, J., Kaspi, S., Lee, C.-U., Mallia, F., Maoz, D., Maury, A., McCormick, J., Monard, L.A.G., Moorhouse, D., Muñoz, J.A., Natusch, T., Nelson, C., Park, B.-G., Pogge, R.W., Polishook, D., Shvartzvald, Y., Shporer, A., Thornley, G., Yee, J.C.,  $\mu$ FUN Collaboration,  $\mu$ C., Abe, F., Bennett, D.P., Bond, I.A., Botzler, C.S., Fukui, A., Furusawa, K., Hayashi, F., Hearnshaw, J.B., Hosaka, S., Itow, Y., Kamiya, K., Kilmartin, P.M., Kobara, S., Korpela, A., Lin, W., Ling, C.H., Makita, S., Masuda, K., Matsubara, Y., Miyake, N., Muraki, Y., Nagaya, M., Nishimoto, K., Ohnishi, K., Okumura, T., Omori, K., Perrott, Y.C., Rattenbury, N., Saito, T., Skuljan, L., Sullivan, D.J., Suzuki, D., Sweatman, W.L., Tristram, P.J., Wada, K., Yock, P.C.M., MOA Collaboration, M.C., Szymański, M.K., Kubiak, M., Pietrzyński, G., Soszyński, I., Poleski, R., Ulaczyk, K., Wyrzykowski, Ł., Kozłowski, S., OGLE Collaboration, O.C., Albrow, M.D., Batista, V., **Bramich, D.M.**, **Brilliant, S.**, Caldwell, J.A.R., Calitz, J.J., Cassan, A., Cole, A., Cook, K.H., Corrales, E., Coutures, C., Dieters, S., Dominis Prester, D., Donatowicz, J., Fouqué, P., Greenhill, J., Hoffman, M., Jørgensen, U.G., Kane, S.R., **Kubas, D.**, Marquette, J.-B., Martin, R., Meintjes, P., Menzies, J., Pollard, K.R., Sahu, K.C., Wambsganss, J., Williams, A., Vinter, C., Zub, M., PLANET Collaboration, P.C., Allan, A., Browne, P., Horne, K., **Snodgrass, C.**, Steele, I., Street, R., Tsapras, Y., RoboNet Collaboration, R.C., Alsubai, K.A., Bozza, V., Browne, P., Burgdorf, M.J., Calchi Novati, S., Dodds, P., Dreizler, S., Finet, F., Gerner, T., Glittrup, M., Grundahl, F., Hardis, S., Harpsøe, K., Hessman, F.V., Hinse, T.C., Hundertmark, M., **Kains, N.**, Kerins, E., Liebig, C., Maier, G., Mancini, L., Mathiasen, M., Penny, M.T., Proft, S., Rahvar, S., Ricci, D., Scarpetta, G., Schäfer, S., Schönebeck, F., Skottfelt, J., Surdej, J., Southworth, J., Zimmer, F., MiNDSTEP Consortium, M.C., 2012, ApJ, 746, 127 [[ADS](#)]

### **Gas modelling in the disc of HD 163296**

Tilling, I., Woitke, P., Meeus, G., Mora, A., Montesinos, B., Riviere-Marichalar, P., Eiroa, C., Thi, W.-F., Isella, A., Roberge, A., Martin-Zaidi, C., Kamp, I., Pinte, C., Sandell, G., Vacca, W.D., Ménard, F., Mendigutía, I., Duchêne, G., **Dent, W.R.F.**, Aresu, G., Meijerink, R., Spaans, M., 2012, A&A, 538, 20 [[ADS](#)]

### **A Magellan-IMACS-IFU Search for Dynamical Drivers of Nuclear Activity. I. Reduction Pipeline and Galaxy Catalog**

Westoby, P.B., Mundell, C.G., Nagar, N.M., Maciejewski, W., **Emsellem, E.**, Roth, M.M., Gerssen, J., & Baldry, I.K., 2012, ApJS, 199, 1 [[ADS](#)]

### **A Large Population of Massive Compact Post-starburst Galaxies at $z > 1$ : Implications for the Size Evolution and Quenching Mechanism of Quiescent Galaxies**

Whitaker, K.E., Kriek, M., van Dokkum, P.G., Bezanson, R., **Brammer, G.**, Franx, M., & Labbé, I., 2012, ApJ, 745, 179 [[ADS](#)]

### **CLASH: Discovery of a Bright $z \sim 6.2$ Dwarf Galaxy Quadruply Lensed by MACS J0329.6-0211**

Zitrin, A., Moustakas, J., Bradley, L., Coe, D., Moustakas, L.A., Postman, M., Shu, X., Zheng, W., Benítez, N., Bouwens, R., Broadhurst, T., Ford, H., Host, O., Jouvel, S., Koekemoer, A., Meneghetti, M., **Rosati, P.**, Donahue, M., Grillo, C., Kelson, D., Lemze, D., Medezinski, E., Molino, A., Nonino, M., & Ogaz, S., 2012, ApJ, 747, L9 [[ADS](#)]

### **Constraining the Planetary System of Fomalhaut Using High-resolution ALMA Observations**

Boley, A.C., Payne, M.J., Corder, S., **Dent, W.R.F.**, Ford, E.B., & Shabram, M., 2012, ApJ, 750, L21 [[ADS](#)]

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