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Cosmology

[The Chandra COSMOS Survey. III. Optical and Infrared Identification of X-Ray Point Sources](#)

Civano, F., Elvis, M., Brusa, M., Comastri, A., Salvato, M., Zamorani, G., Aldcroft, T., Bongiorno, A., Capak, P., Cappelluti, N., Cisternas, M., Fiore, F., Fruscione, A., Hao, H., Kartaltepe, J., Koekemoer, A., Gilli, R., Impey, C.D., Lanzuisi, G., Lusso, E., **Mainieri, V.**, Miyaji, T., Lilly, S., Masters, D., Puccetti, S., Schawinski, K., Scoville, N.Z., Silverman, J., Trump, J., Urry, M., Vignali, C., & Wright, N.J., 2012, ApJS, 201, 30 [[ADS](#)]

Instruments: VIMOS

[Submillimeter Observations of Millimeter Bright Galaxies Discovered by the South Pole Telescope](#)

Greve, T.R., Vieira, J.D., Weiß, A., Aguirre, J.E., Aird, K.A., Ashby, M.L.N., Benson, B.A., Bleem, L.E., Bradford, C.M., Brodwin, M., Carlstrom, J.E., Chang, C.L., Chapman, S.C., Crawford, T.M., **de Breuck, C.**, de Haan, T., Dobbs, M.A., Downes, T., Fassnacht, C.D., Fazio, G., George, E.M., Gladders, M., Gonzalez, A.H., Halverson, N.W., Hezaveh, Y., High, F.W., Holder, G.P., Holzapfel, W.L., Hoover, S., Hrubes, J.D., Johnson, M., Keisler, R., Knox, L., Lee, A.T., Leitch, E.M., Lueker, M., Luong-Van, D., Malkan, M., Marrone, D.P., McIntyre, V., McMahon, J.J., Mehl, J., Menten, K.M., Meyer, S.S., Montroy, T., Murphy, E.J., Natoli, T., Padin, S., Plagge, T., Pryke, C., Reichardt, C.L., Rest, A., Rosenman, M., Ruel, J., Ruhl, J.E., Schaffer, K.K., Sharon, K., Shaw, L., Shirokoff, E., Stalder, B., Stanford, S.A., Staniszewski, Z., Stark, A.A., Story, K., Vanderlinde, K., Walsh, W., Welikala, N., & Williamson, R., 2012, ApJ, 756, 101 [[ADS](#)]

Instruments: FORS2, LABOCA, SABOCA, SABOCA, X-SHOOTER, Z-Spec, Z-Spec, Z-Spec, Z-Spec

[The Optically Unbiased Gamma-Ray Burst Host \(TOUGH\) Survey. I. Survey Design and Catalogs](#)

Hjorth, J., Malesani, D., Jakobsson, P., Jaunsen, A.O., Fynbo, J.P.U., Gorosabel, J., Krühler, T., Levan, A.J., Michałowski, M.J., Milvang-Jensen, B., **Møller, P.**, Schulze, S., Tanvir, N.R., & Watson, D., 2012, ApJ, 756, 187 [[ADS](#)]

Instruments: FORS1, FORS2, ISAAC, X-SHOOTER, X-SHOOTER, X-SHOOTER, X-SHOOTER, X-SHOOTER

[A Group-galaxy Cross-correlation Function Analysis in zCOSMOS](#)

Knobel, C., Lilly, S.J., Carollo, C.M., Contini, T., Kneib, J.-P., Le Fevre, O., **Mainieri, V.**, Renzini, A., Scodeggio, M., Zamorani, G., Bardelli, S., Bolzonella, M., Bongiorno, A., Caputi, K., Cucciati, O., de la Torre, S., de Ravel, L., Franzetti, P., Garilli, B., Iovino, A., Kampczyk, P., Kovač, K., Lamareille, F., Le Borgne, J.-F., Le Brun, V., Maier, C., Mignoli, M., Pello, R., Peng, Y., Perez Montero, E., Presotto, V., Silverman, J., Tanaka, M., Tasca, L., Tresse, L., Vergani, D., Zucca, E., Barnes, L., Bordoloi, R., Cappi, A., Cimatti, A., Coppa, G., Koekemoer, A.M., López-Sanjuan, C., McCracken, H.J., Moresco, M., Nair, P., Pozzetti, L., Welikala, N., 2012, ApJ, 755, 48 [[ADS](#)]

Instruments: VIMOS

[UltraVISTA: a new ultra-deep near-infrared survey in COSMOS](#)

McCracken, H.J., Milvang-Jensen, B., Dunlop, J., Franx, M., Fynbo, J.P.U., Le Fèvre, O., Holt, J., Caputi, K.I., Goranova, Y., Buitrago, F., Emerson, J.P., **Freudling, W.**, Hudelot, P., López-Sanjuan, C., Magnard, F., Mellier, Y., **Møller, P.**, Nilsson, K.K., Sutherland, W., Tasca, L., & Zabl, J., 2012, A&A, 544, 156 [[ADS](#)]

Instruments: VIRCAM

[The Optically Unbiased GRB Host \(TOUGH\) Survey. VI. Radio Observations at z](#)

Michałowski, M.J., Kamble, A., Hjorth, J., Malesani, D., Reinfrank, R.F., Bonavera, L., Castro Cerón, J.M., Ibar, E., Dunlop, J.S., Fynbo, J.P.U., Garrett, M.A., Jakobsson, P., Kaplan, D.L., Krühler, T., Levan, A.J., Massardi, M., Pal, S., Sollerman, J., Tanvir, N.R., van der Horst, A.J., Watson, D., & Wiersema, K., 2012, ApJ, 755, 85 [[ADS](#)]

Instruments: FORS1, FORS2, ISAAC

[An atmospheric radiation model for Cerro Paranal. I. The optical spectral range](#)

Noll, S., Kausch, W., Barden, M., Jones, A.M., Szyszka, C., Kimeswenger, S., & **Vinther, J.**, 2012, A&A, 543, 92

[[ADS](#)]

Instruments: FORS1, UVES

Planck intermediate results. I. Further validation of new Planck clusters with XMM-Newton

Planck Collaboration, P.C., Aghanim, N., Arnaud, M., Ashdown, M., Atrio-Barandela, F., Aumont, J., Baccigalupi, C., Balbi, A., Banday, A.J., Barreiro, R.B., Bartlett, J.G., Battaner, E., Benabed, K., Bernard, J.-P., Bersanelli, M., Böhringer, H., Bonaldi, A., Bond, J.R., Borrill, J., Bouchet, F.R., Bourdin, H., Brown, M.L., Burigana, C., Butler, R.C., Cabella, P., Cardoso, J.-F., Carvalho, P., Catalano, A., Cayón, L., Chamballu, A., Chary, R.R., Chiang, L.-Y., Chon, G., Christensen, P.R., Clements, D.L., Colafrancesco, S., Colombi, S., Coulais, A., Crill, B.P., Cuttaia, F., Da Silva, A., Dahle, H., Davis, R.J., de Bernardis, P., de Gasperis, G., de Zotti, G., Delabrouille, J., Démoclès, J., Désert, F.-X., Diego, J.M., Dolag, K., Dole, H., Donzelli, S., Doré, O., Douspis, M., Dupac, X., Enßlin, T.A., Eriksen, H.K., Finelli, F., Flores-Cacho, I., Forni, O., Fosalba, P., Frailis, M., Fromenteau, S., Galeotta, S., Ganga, K., Génova-Santos, R.T., Giard, M., González-Nuevo, J., González-Riestra, R., Górski, K.M., Gregorio, A., Gruppuso, A., Hansen, F.K., Harrison, D., Hempel, A., Hernández-Monteagudo, C., Herranz, D., Hildebrandt, S.R., Hornstrup, A., Huffenberger, K.M., Hurier, G., Jagemann, T., Jasche, J., Juvela, M., Keihänen, E., Keskitalo, R., Kisner, T.S., **Kneissl, R.**, Knoche, J., Knox, L., Kurki-Suonio, H., Lagache, G., Lähteenmäki, A., Lamarre, J.-M., Lasenby, A., Lawrence, C.R., Leach, S., Leonardi, R., Liddle, A., Lilje, P.B., López-Cañiego, M., Luzzi, G., Macías-Pérez, J.F., Maino, D., Mandolesi, N., Mann, R., Marleau, F., Marshall, D.J., Martínez-González, E., Masi, S., Massardi, M., Matarrese, S., Matthai, F., Mazzotta, P., Meinhold, P.R., Melchiorri, A., Melin, J.-B., Mendes, L., Mennella, A., Miville-Deschênes, M.-A., Moneti, A., Montier, L., Morgante, G., Mortlock, D., Munshi, D., Naselsky, P., Natoli, P., Nørgaard-Nielsen, H.U., Noviello, F., Osborne, S., Pasian, F., Patanchon, G., Perdereau, O., Perrotta, F., Piacentini, F., Pierpaoli, E., Plaszczynski, S., Platania, P., Pointecouteau, E., Polenta, G., Ponthieu, N., Popa, L., Poutanen, T., Pratt, G.W., Puget, J.-L., Rachen, J.P., Rebolo, R., Reinecke, M., Remazeilles, M., Renault, C., Ricciardi, S., Riller, T., Ristorcelli, I., Rocha, G., Rosset, C., Rossetti, M., Rubiño-Martín, J.A., Rusholme, B., Sandri, M., Savini, G., Schaefer, B.M., Scott, D., Smoot, G.F., Starck, J.-L., Stivoli, F., Sunyaev, R., Sutton, D., Sygnet, J.-F., Tauber, J.A., Terenzi, L., Toffolatti, L., Tomasi, M., Tristram, M., Valenziano, L., Van Tent, B., Vielva, P., Villa, F., Vittorio, N., Wandelt, B.D., Weller, J., White, S.D.M., Yvon, D., Zacchei, A., Zonca, A., 2012, *A&A*, 543, 102 [[ADS](#)]

Instruments: WFI, WFI

Galaxy counterparts of intervening high-*z* sub-DLAs/DLAs and Mg ii absorbers towards gamma-ray bursts

Schulze, S., Fynbo, J.P.U., Milvang-Jensen, B., Rossi, A., Jakobsson, P., **Ledoux, C.**, De Cia, A., Krühler, T., **Mehner, A.**, Björnsson, G., Chen, H.-W., Vreeswijk, P.M., Perley, D.A., Hjorth, J., Levan, A.J., Tanvir, N.R., Ellison, S., **Møller, P.**, Worseck, G., Chapman, R., Dall'Aglio, A., Letawe, G., 2012, *A&A*, 546, 20 [[ADS](#)]

Instruments: FORS1, FORS1, FORS2, FORS2, FORS2, ISAAC, UVES, UVES, X-SHOOTER

Residual cooling and persistent star formation amid active galactic nucleus feedback in Abell 2597

Tremblay, G.R., O'Dea, C.P., Baum, S.A., Clarke, T.E., Sarazin, C.L., Bregman, J.N., Combes, F., Donahue, M., Edge, A.C., Fabian, A.C., Ferland, G.J., McNamara, B.R., Mittal, R., Oonk, J.B.R., Quillen, A.C., Russell, H.R., Sanders, J.S., Salomé, P., Voit, G.M., Wilman, R.J., & Wise, M.W., 2012, *MNRAS*, 424, 1042 [[ADS](#)]

Instruments: SINFONI

CLASH: Mass Distribution in and around MACS J1206.2-0847 from a Full Cluster Lensing Analysis

Umetsu, K., Medezinski, E., Nonino, M., Merten, J., Zitrin, A., Molino, A., Grillo, C., **Carrasco, M.**, Donahue, M., Mahdavi, A., Coe, D., Postman, M., Koekemoer, A., Czakon, N., Sayers, J., Mroczkowski, T., Golwala, S., Koch, P.M., Lin, K.-Y., Molnar, S.M., **Rosati, P.**, Balestra, I., Mercurio, A., Scodeggio, M., Biviano, A., Anguita, T., Infante, L., Seidel, G., Sendra, I., Jouvel, S., Host, O., Lemze, D., Broadhurst, T., Meneghetti, M., Moustakas, L., Bartelmann, M., Benítez, N., Bouwens, R., Bradley, L., Ford, H., Jiménez-Teja, Y., Kelson, D., Lahav, O., Melchior, P., Moustakas, J., Ogaz, S., Seitz, S., Zheng, W., 2012, *ApJ*, 755, 56 [[ADS](#)]

Instruments: VIMOS

MASSIV: Mass Assembly Survey with SINFONI in VVDS. IV. Fundamental relations of star-forming galaxies at $1 < z < 1.6$

Vergani, D., Epinat, B., Contini, T., Tasca, L., Tresse, L., Amram, P., Garilli, B., **Kissler-Patig, M.**, Le Fèvre, O., Moutaka, J., Paioro, L., Queyrel, J., & López-Sanjuan, C., 2012, *A&A*, 546, 118 [[ADS](#)]

Instruments: SINFONI, SINFONI, SINFONI, VIMOS, VIMOS

Galaxies and Galactic Nuclei

A wide-area view of the Phoenix dwarf galaxy from Very Large Telescope/FORS imaging

Battaglia, G., Rejkuba, M., Tolstoy, E., Irwin, M.J., & **Beccari, G.**, 2012, *MNRAS*, 424, 1113 [[ADS](#)]

Instruments: FORS2

[The Central Blue Straggler Population in Four Outer-halo Globular Clusters](#)

Beccari, G., Lützgendorf, N., Olczak, C., Ferraro, F.R., Lanzoni, B., **Carraro, G.,** Stetson, P.B., Sollima, A., & **Boffin, H.M.J.,** 2012, ApJ, 754, 108 [[ADS](#)]
Instruments: WFI

[The ionized gas in the central region of NGC 5253. 2D mapping of the physical and chemical properties](#)

Monreal-Ibero, A., **Walsh, J.R.,** & Vílchez, J.M., 2012, A&A, 544, 60 [[ADS](#)]
Instruments: FLAMES-GIRAFFE, FLAMES-GIRAFFE

[Milky Way demographics with the VVV survey. I. The 84-million star colour-magnitude diagram of the Galactic bulge](#)

Saito, R.K., Minniti, D., Dias, B., Hempel, M., **Rejkuba, M.,** Alonso-García, J., Barbuy, B., Catelan, M., Emerson, J.P., **Gonzalez, O.A.,** Lucas, P.W., & Zoccali, M., 2012, A&A, 544, 147 [[ADS](#)]
Instruments: VIRCAM

[Dynamics of the NGC 4636 globular cluster system. II. Improved constraints from a large sample of globular cluster velocities](#)

Schuberth, Y., Richtler, T., **Hilker, M., Salinas, R.,** Dirsch, B., & Larsen, S.S., 2012, A&A, 544, 115 [[ADS](#)]
Instruments: FORS2

[The light element abundance distribution in NGC 5128 from planetary nebulae](#)

Walsh, J.R., Jacoby, G.H., Peletier, R.F., & Walton, N.A., 2012, A&A, 544, 70 [[ADS](#)]
Instruments: FORS1, FORS1, FORS1, WFI

[The jet-cloud interacting radio galaxy PKS B2152-699 - I. Structures revealed in new deep radio and X-ray observations](#)

Worrall, D.M., Birkinshaw, M., Young, A.J., Momtahan, K., **Fosbury, R.A.E.,** Morganti, R., Tadhunter, C.N., & Verdoes Kleijn, G., 2012, MNRAS, 424, 1346 [[ADS](#)]
Instruments: WFI

Interstellar Medium, Star Formation and Planetary Systems

[Morphology of the very inclined debris disk around HD 32297](#)

Boccaletti, A., Augereau, J.-C., Lagrange, A.-M., Milli, J., Baudoz, P., **Mawet, D.,** Mouillet, D., Lebreton, J., Maire, A.-L., 2012, A&A, 544, 85 [[ADS](#)]
Instruments: NACO

[Multiwavelength Observations of V2775 Ori, an Outbursting Protostar in L 1641: Exploring the Edge of the FU Orionis Regime](#)

Fischer, W.J., Megeath, S.T., Tobin, J.J., Stutz, A.M., Ali, B., Remming, I., Kounkel, M., **Stanke, T.,** Osorio, M., Henning, T., Manoj, P., & Wilson, T.L., 2012, ApJ, 756, 99 [[ADS](#)]
Instruments: LABOCA, SABOCA

[Direct imaging of extra-solar planets in star forming regions. Lessons learned from a false positive around IM Lupi](#)

Mawet, D., Absil, O., **Montagnier, G.,** Riaud, P., Surdej, J., Ducourant, C., Augereau, J.-C., Röttinger, S., **Girard, J.,** Krist, J., Stapelfeldt, K., 2012, A&A, 544, 131 [[ADS](#)]
Instruments: NACO, NACO, NACO

[Abundance analysis of four members of the metal-rich open cluster NGC 6253](#)

Montalto, M., Santos, N.C., Villanova, S., Pace, G., Piotto, G., Desidera, S., De Marchi, F., **Pasquini, L.,** & **Saviane, I.,** 2012, MNRAS, 423, 3039 [[ADS](#)]
Instruments: FLAMES-UV

Stellar Evolution

[SN 2009kn - the twin of the Type IIn supernova 1994W](#)

Kankare, E., Ergon, M., Bufano, F., **Spyromilio, J.,** Mattila, S., Chugai, N.N., Lundqvist, P., Pastorello, A., Kotak, R., Benetti, S., Botticella, M.-T., Cumming, R.J., Fransson, C., Fraser, M., Leloudas, G., Miluzio, M., Sollerman, J.,

Stritzinger, M., Turatto, M., Valenti, S., 2012, MNRAS, 424, 855 [[ADS](#)]
Instruments: UVES, SOFI, EFOSC2_NTT, X-SHOOTER

[High-velocity stars in the cores of globular clusters: the illustrative case of NGC 2808](#)

Lützgendorf, N., Gualandris, A., **Kissler-Patig, M.**, Gebhardt, K., Baumgardt, H., Noyola, E., Kruijssen, J.M.D., Jalali, B., **de Zeeuw, P.T.**, & **Neumayer, N.**, 2012, A&A, 543, 82 [[ADS](#)]
Instruments: FLAMES-GIRAFFE

[Detection of an asymmetry in the envelope of the carbon Mira R Fornacis using VLT/MIDI](#)

Paladini, C., Sacuto, S., Klotz, D., Ohnaka, K., **Wittkowski, M.**, Nowotny, W., Jorissen, A., & Hron, J., 2012, A&A, 544, L5 [[ADS](#)]
Instruments: MIDI, MIDI, MIDI

Miscellaneous

[Threshing in Action: The Tidal Disruption of a Dwarf Galaxy by the Hydra I Cluster](#)

Koch, A., Burkert, A., Rich, R.M., Collins, M.L.M., Black, C.S., **Hilker, M.**, & Benson, A.J., 2012, ApJ, 755, L13 [[ADS](#)]
Instruments: FORS1

New Isolated Planetary-mass Objects and the Stellar and Substellar Mass Function of the σ Orionis Cluster

Peña Ramírez, K., Béjar, V.J.S., Zapatero Osorio, M.R., **Petr-Gotzens, M.G.**, & Martín, E.L., 2012, ApJ, 754, 30 [[ADS](#)]
Instruments: VIRCAM

Two nearby Sub-Earth-sized Exoplanet Candidates in the GJ 436 System

Stevenson, K.B., Harrington, J., Lust, N.B., Lewis, N.K., **Montagnier, G.**, Moses, J.I., Visscher, C., Bleic, J., Hardy, R.A., Cubillos, P., & Campo, C.J., 2012, ApJ, 755, 9 [[ADS](#)]
Instruments: HARPS

[Unexpectedly large mass loss during the thermal pulse cycle of the red giant star R Sculptoris](#)

Maercker, M., Mohamed, S., Vlemmings, W.H.T., Ramstedt, S., Groenewegen, M.A.T., **Humphreys, E.**, Kerschbaum, F., Lindqvist, M., Olofsson, H., Paladini, C., **Wittkowski, M.**, de Gregorio-Monsalvo, I., & **Nyman, L.-A.**, 2012, Natur, 490, 232 [[ADS](#)]
Instruments: ALMA_Bands

Papers without ESO data

The COSMOS density field: a reconstruction using both weak lensing and galaxy distributions

Amara, A., Lilly, S., Kovač, K., Rhodes, J., Massey, R., Zamorani, G., Carollo, C.M., Contini, T., Kneib, J.-P., Le Fevre, O., **Mainieri, V.**, Renzini, A., Scodeggio, M., Bardelli, S., Bolzonella, M., Bongiorno, A., Caputi, K., Cucciati, O., de la Torre, S., de Ravel, L., Franzetti, P., Garilli, B., Iovino, A., Kampczyk, P., Knobel, C., Lamareille, F., Le Borgne, J.-F., Le Brun, V., Maier, C., Mignoli, M., Pello, R., Peng, Y., Montero, E.P., Presotto, V., Silverman, J., Tanaka, M., Tasca, L., Tresse, L., Vergani, D., Zucca, E., Barnes, L., Bordoloi, R., Cappi, A., Cimatti, A., Coppa, G., Koekoemoer, A., López-Sanjuan, C., McCracken, H.J., Moresco, M., Nair, P., Pozzetti, L., Welikala, N., 2012, MNRAS, 424, 553 [[ADS](#)]

MOA 2010-BLG-477Lb: Constraining the Mass of a Microlensing Planet from Microlensing Parallax, Orbital Motion, and Detection of Blended Light

Bachelet, E., Shin, I.-G., Han, C., Fouqué, P., Gould, A., Menzies, J.W., Beaulieu, J.-P., Bennett, D.P., Bond, I.A., Dong, S., Heyrovský, D., Marquette, J.-B., Marshall, J., Skowron, J., Street, R.A., Sumi, T., Udalski, A., Abe, L., Agabi, K., Albrow, M.D., Allen, W., Bertin, E., Bos, M., **Bramich, D.M.**, Chavez, J., Christie, G.W., Cole, A.A., Crouzet, N., Dieters, S., Dominik, M., Drummond, J., Greenhill, J., Guillot, T., Henderson, C.B., Hessman, F.V., Horne, K., Hundertmark, M., Johnson, J.A., Jørgensen, U.G., Kandori, R., Liebig, C., Mékarnia, D., McCormick, J., Moorhouse, D., Nagayama, T., Nataf, D., Natusch, T., Nishiyama, S., Rivet, J.-P., Sahu, K.C., Shvartzvald, Y., Thornley, G., Tomczak, A.R., Tsapras, Y., Yee, J.C., Batista, V., Bennett, C.S., **Brillant, S.**, Caldwell, J.A.R., Cassan, A., Corrales, E., Coutures, C., Dominis Prester, D., Donatowicz, J., **Kubas, D.**, Martin, R., Williams, A., Zub, M., The PLANET Collaboration, T.P.C., de Almeida, L.A., DePoy, D.L., Gaudi, B.S., Hung, L.-W., Jablonski, F., Kaspi, S., Klein, N., Lee, C.-U., Lee, Y., Koo, J.-R., Maoz, D., Muñoz, J.A., Pogge, R.W., Polishook, D., Shporer, A., μ Collaboration, T.F., Abe, F., Botzler, C.S., Chote, P., Freeman, M., Fukui, A., Furusawa, K., Harris, P., Itow, Y.,

Kobara, S., Ling, C.H., Masuda, K., Matsubara, Y., Miyake, N., Ohmori, K., Ohnishi, K., Rattenbury, N.J., Saito, T., Sullivan, D.J., Suzuki, D., Sweatman, W.L., Tristram, P.J., Wada, K., Yock, P.C.M., The MOA Collaboration, T.M.C., Szymański, M.K., Soszyński, I., Kubiak, M., Poleski, R., Ulaczyk, K., Pietrzyński, G., Wyrzykowski, Ł., The OGLE Collaboration, T.O.C., **Kains, N.**, Snodgrass, C., Steele, I.A., The RoboNet Collaboration, T.R.C., Alsubai, K.A., Bozza, V., Browne, P., Burgdorf, M.J., Calchi Novati, S., Dodds, P., Dreizler, S., Finet, F., Gerner, T., Hardis, S., Harpsøe, K., Hinse, T.C., Kerins, E., Mancini, L., Mathiasen, M., Penny, M.T., Proft, S., Rahvar, S., Ricci, D., Scarpetta, G., Schäfer, S., Schönebeck, F., Southworth, J., Surdej, J., Wambsganss, J., MiNDSTeP Consortium, T., 2012, ApJ, 754, 73 [[ADS](#)]

Imaging the heart of astrophysical objects with optical long-baseline interferometry

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OGLE-2008-BLG-510: first automated real-time detection of a weak microlensing anomaly - brown dwarf or stellar binary?

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