

LIST OF PUBLICATIONS 2012-2018

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2018 (30 PUBLICATIONS)

Agnes P. et al. (ARIS Collaboration)

Measurement of the liquid argon energy response to nuclear and electronic recoils

Phys. Rev. D97 (2018) 11 112005

Arabsalmani, ..., E. Le Floch, ..., S. Vergani, et al., 2017,

Mass and metallicity scaling relations of high redshift star-forming galaxies selected by GRBs

MNRAS, in press

Arabsalmani, E. Le Floch, ..., S. Vergani, et al., 2017,

A Molecular gas rich GRB host galaxy at the peak of cosmic star formation with significant outflowing gas

MNRAS, in press

Armano et al.

Beyond the Required LISA Free-Fall Performance: New LISA Pathfinder Results down to 20 μ Hz

Physical ReviewLetters (2018), vol. 120, pp. 061101

Armano M, H Audley, J Baird, P Binetruy, M Born, D Bortoluzzi, E Castelli, A Cavalleri, A Cesarini, M Cruise, K Danzmann, M de Deus Silva, I Diepholz, G Dixon, R Dolesi, L Ferraioli, V Ferroni, N Finetti, E D Fitzsimons, M Freschi, L Gesa, F Gibert, D Giardini, R Giusteri, C Grimani, J Grzysch, I Harrison, G Heinzl, M Hewitson, D Hollington, D Hoyland, M Hueller, H Inchauspe, O Jennrich, P Jetzer, N Karnesis, B Kaune, N Korsakova, C J Killow, J A Lobo, I Lloro, L Liu, J P Lopez-Zaragoza, R Maarschalkerweerd, D Mance, N Meshkar, V Martin, L Martin-Polo, J Martino, F Martin-Porqueras, I Mateos, P W McNamara, J Mendes, L

Mendes, M Nofrarias, S Paczkowski, M Perreur-Lloyd, A Petiteau, P Pivato, E Plagnol, J Ramos-Castro, J Reiche, D I Robertson, F Rivas, G Russano, J Slutsky, C F Sopena, et al. (12 additional authors not shown), 12 janvier 2018

Measuring the Galactic Cosmic Ray Flux with the LISA Pathfinder Radiation Monitor

arXiv:1711.07427 [astro-ph.IM]

Armano, H. Audley, J. Baird, M. Bassan, S. Benella, P. Binetruy, M. Born, D. Bortoluzzi, A. Cavalleri, A. Cesarini, A. M. Cruise, K. Danzmann, M. de Deus Silva, I. Diepholz, G. Dixon, R. Dolesi, M. Fabi, L. Ferraioli, V. Ferroni, N. Finetti, E. D. Fitzsimons, M. Freschi, L. Gesa, F. Gibert, D. Giardini, R. Giusteri, C. Grimani, J. Grzysch, I. Harrison, G. Heinzel, M. Hewitson, D. Hollington, D. Hoyland, M. Hueller, H. Inchauspé, O. Jennrich, P. Jetzer, N. Karnesis, B. Kaune, N. Korsakova, C. J. Killow, M. Laurenza, J. A. Lobo, I. Lloro, L. Liu, J. P. López-Zaragoza, R. Maarschalkerweerd, D. Mance, V. Martín, L. Martin-Polo, J. Martino, F. Martin-Porqueras, I. Mateos, P. W. McNamara, J. Mendes, L. Mendes, M. Nofrarias, S. Paczkowski, M. Perreur-Lloyd, A. Petiteau, P. Pivato, et al. (24 additional authors not shown), 23 avril 2018

Characteristics and energy dependence of recurrent galactic cosmic-ray flux depressions and of a Forbush decrease with LISA Pathfinder

arXiv:1802.09374 [physics.space-ph]

Barnes J. W., S. M. MacKenzie, E. F. Young, L. E. Trouille, S. Rodriguez, T. Cornet, B. K. Jackson, M. Adamkovic, C. Sotin, and J. M. Soderblom. 2018

Spherical radiatif transfer in C++ (SRTC++): A parallel Monte-Carlo radiative transfer model for Titan

The Astronomical Journal 155:264 (12pp). <https://doi.org/10.3847/1538-3881/aac2db>

Brossier J. F., S. Rodriguez, T. Cornet, A. Lucas, J. Radebaugh, L. Maltagliati, S. Le Mouélic, A. Solomondou, A. Coustenis, M. Hirtzig, R. Jaumann, K. Stephan, and C. Sotin.

Geological evolution of Titan's equatorial regions: Possible nature and origin of the dune material

Journal of Geophysical Research: Planets 123, 2018. <https://doi.org/10.1029/2017JE005399>

Caquineau, T., Paquette, J.-L. and Philippot, P. (2018)

U-Pb detrital zircon geochronology of the Turee Creek Group, Hamersley Basin, Western Australia: timing and correlation of the Paleoproterozoic glaciations.

Precamb. Res. 307, 34-50.

Cavet C., A. Bailly-Reyre, D. Chamont, O. Dadoun, P. Hennion, O. Lodygensky, G. Marchal-Duval, E. Medernach, V. Mendoza, J. Pansanel, A. Sartirana, M. Souchal, J. Tugler

ComputeOps : container for High Performance Computing

CHEP 2018 Conference (2018).

Cavet C., A. Petiteau, M. Le Jeune

Prototyping for the Distributed Data Processing Center of LISA

12th International LISA Symposium (2018).

Charnoz S., Canup R.M., Crida A., Dones L. 2018.

The Origin of Planetary Ring System.

Planetary Rings 2, C.D. Murray and M. Tiscareno Eds., Univ. Of Arizona Press

DarkSide Collaboration,

Low-mass Dark Matter Search with the DarkSide-50 Experiment

Phys. Rev. Lett. 121 (2018) 081307

DarkSide Collaboration, (2018)

Constraints on Sub-GeV Dark Matter-Electron Scattering from the DarkSide-50 Experiment
(accepted by PRL) arXiv:1802.06998

DarkSide Collaboration, (2018)

DarkSide-50 532-day Dark Matter Search with Low-Radioactivity Argon
arXiv:1802.07198

DarkSide Collaboration, (2018)

Electroluminescence pulse shape and electron diffusion in liquid argon measured in a dual-phase TPC
arXiv:1802.01427

Emami R., Tom Broadhurst, George Smoot, Tzihong Chiueh, Luu Hoang Nhan, 12 Juin 2018,

A Soliton Solution for the Central Dark Masses in Globular Clusters and Implications for the Axiverse
arXiv:1806.04518 [astro-ph.CO]

Emami R., Tom Broadhurst, Pablo Jimeno, George Smoot, Raul Angulo, Jeremy Lim, Ming Chung Chu, Ruth Lazkoz, 18 Novembre 2017

Evidence of Neutrino Enhanced Clustering in a Complete Sample of Sloan Survey Clusters, Implying $\sum m_\nu = 0.11 \pm 0.03 eV$.
arXiv:1711.05210v2 [astro-ph.CO]

Fernandez-Cascales, Laura, Lucas Antoine, Rodrigue Sébastien, Gao Xin, Spiga Aymeric, and Narteau Clément

First quantification of relationship between dune orientation and sediment availability, Olympia Undae, Mars
Earth and Planetary Science Letters, 2018/05/01/, Volume 489, p.241 - 250, (2018)

Fiorucci D. et al.,

Impact of infrasound atmospheric noise on gravity detectors used for astrophysical and geophysical applications
Physical ReviewD., January 2018, DOI: 10.1103/PhysRevD.97.062003

Golombek M., M. Grott, G. Kargl, J. Andrade, J. Marshall, N. Warner, N. A. Teanby, V. Ansan, E. Hauber, J. Voigt, R. Lichtenheldt, B. Knapmeyer-Endrun, I. J. Daubar, D. Kipp, N. Muller, P. Lognonné, C. Schmelzbach, D. Banfield, A. Trebi-Ollennu, J. Maki, S. Kedar, D. Mimoun, N. Murdoch, S. Piqueux, P. Delage, W. T. Pike, C. Charalambous, R. Lorenz, L. Fayon, A. Lucas, S. Rodriguez, P. Morgan, A. Spiga, M. Panning, T. Spohn, S. Smrekar, T. Gudkova, R. Garcia, D. Giardini, U. Christensen, T. Nicollier, D. Sollberger, J. Robertsson, K. Ali, B. Kenda, and W. B. Banerdt. 2018.

Geology and Physical Properties Investigations by the InSight Lander,
SSR 214:84, 2018. <https://doi.org/10.1007/s11214-018-0512-7>

Hyodo R., Charnoz S., 2018.

Dynamical Evolution of the debris disk after satellite catastrophic disruption around Saturn.
Astron. J., 154, Id.34

L'Huillier Benjamin (KASI), Arman Shafieloo (KASI), Dhiraj Kumar Hazra, George F. Smoot, Alexei A. Starobinsky, 30 Octobre 2017

Probing features in the primordial perturbation spectrum with large-scale structure data
arXiv:1710.10987 (astro-ph.CO)

Le Mouélic S., J. W. Barnes, B. Charnay, J. F. Kok, R. D. Lorenz, J. Radebaugh, T. Cornet, O. Bourgeois, A. Lucas, P. Rannou, C. A. Griffith, A. Coustenis, T. Appéré, M. Hirtzig, C. Sotin, J. M. Soderblom, R. H. Brown, J. Bow, G. Vixie, L. Maltagliati, S. Courrech du Pont, C. Narteau, R. Jaumann, K. Stephan, K. H. Baines, B. J. Buratti, R. N. Clark, P. D. Nicholson.

Dust storms on Titan

Nature Geoscience,

Le Mouélic S., S. Rodriguez, R. Robidel, B. Rousseau, B. Seignovert, C. Sotin, J.W. Barnes, R.H. Brown, K.H. Baines, B.J. Buratti, R.N. Clark, P.D. Nicholson, P. Rannou, and T. Cornet.

Mapping polar atmospheric features on Titan with VIMS: From the dissipation of the northern cloud to the onset of a southern polar vortex

carus 311, 371–383, 2018. <https://doi.org/10.1016/j.icarus.2018.04.028>

Mahan, B., Moynier, F., Beck, P., Pringle, E., Siebert, J.

Thermal history and volatile loss in carbo-naceous chondrites: insights from water content, Zn isotopes and volatile element abundances.

2018, 19-35. GCA.

Marin-Carbonne, J., Remusat, L., Sforza, M.C., Thomazo, C., Cartigny, P. and Philippot, P. (2018)

Sulfur isotopes signal of nanopyrites enclosed in 2.7 billions year old stromatolitic organic remains reveal microbial sulfate reduction and diagenetic processes in closed system.

Geobiology 16, 121-138.

Solomonidou A. , A. Coustenis, R. M. C. Lopes, M. J. Malaska, S. Rodriguez, P. Drossart, C. Elachi, B. Schmitt, S. Philippe, M. Janssen, M. Hirtzig, S. Wall, C. Sotin, K. Lawrence, N. Altobelli, E. Bratsolis, J. Radebaugh, K. Stephan, R. H. Brown, S. Le Mouélic, A. Le Gall, E. V. Villanueva, J. F. Brossier, A. A. Bloom, O. Witasse, C. Matsoukas, and A. Schoenfeld.

The Spectral Nature of Titan's Major Geomorphological Units: Constraints on Surface Composition

Journal of Geophysical Research: Planets 123, 489–507, 2018. <https://doi.org/10.1002/2017JE005477>

Spiga A., D. Banfield, J. A. Rodriguez Manfredi, M. T. Lemmon, O. Karatekin, F. Forget, N. Murdoch, B. Kenda, P. Lognonné, T. Kawamura, J. Clinton, R. Garcia, L. Rolland, D. Mimoun, R. Widmer, E. Beucler, V. Dehant, N. Teanby, S. Rodriguez, A. Lucas, R. Lorenz, I. Daubar, E. Stutzmann, M. Golombek, N. Mueller, T. Spohn, and W. B. Banerdt.

Atmospheric Science with InSight,

SSR, accepted.

Turtle E. P., J. E. Perry, J. M. Barbara, A. D. Del Genio, S. Rodriguez, S. Le Mouélic, C. Sotin, J. M. Lora, S. Faulk, P. Corlies, J. Kelland, S. M. MacKenzie, R. A. West, A. S. McEwen, J. I. Lunine, J. Pitesky, T. L. Ray, and M. Roy.

Titan's meteorology over the Cassini mission: Evidence for extensive subsurface methane reservoirs,

GRL, doi: 10.1029/2018GL078170

Abbott,...,D. Götz, ...,S. Vergani,..., et al., 2017,

Multi-messenger observations of a neutron star merger

ApJ, 848, L12

Adrián-Martínez S. et al. [KM3NeT Collaboration], 2017

Intrinsic limits on resolutions in muon- and electron-neutrino charged-current events in the KM3NeT/ORCA detector

JHEP05 (2017) 008

Albert A. et al, ANTARES Collaboration,

An algorithm for the reconstruction of high-energy neutrino-induced particle showers and its application to the ANTARES neutrino telescope

Eur. Phys. J. C 77 (2017) 419

Amsellem, E., Moynier, F., Pringle, E., Bouvier, A., Day, J. 2017

Testing the chondrule-rich accretion theory with Ca isotopes.

EPSL. 469, 75-83

Arabsalmani, M. ..., E. Le Floch, ..., S. Vergani, et al., 2017,

Mass and metallicity scaling relations of high redshift star-forming galaxies selected by GRBs

MNRAS, in press

Arabsalmani, M. E. Le Floch, ..., S. Vergani, et al., 2017,

A Molecular gas rich GRB host galaxy at the peak of cosmic star formation with significant outflowing gas

MNRAS, in press

Armano et al., 2017

Charge-Induced Force Noise on Free-Falling Test Masses: Results from LISA Pathfinder.

Physical Review Letters (2017) vol. 118 pp. 171101 Eur. Phys. J. C 77 (2017) 419

Armano, M. et al., 2017

Capacitive sensing of test mass motion with nanometer precision over millimeter-wide sensing gaps for space-borne gravitational reference sensors

Physical Review Letters D (2017), vol. 96, pp. 062004

Asmaa Abada, Giorgio Arcadi, Valerie Domcke and Michele Lucente. September 5, 2017

Neutrino masses, leptogenesis and dark matter From small lepton number violation?

<https://arXiv:1709.00415v1> [hep-ph]

Badullovich, Moynier, Creech, Sossi and Teng.

Tin stable isotopic fractionation during igneous differentiation.

2017 GPL. In press.

Bergé J., Touboul P., Rodrigues M., Liorzou F., 2017

MICROSCOPE : five months after launch

Journal of Physics: Conference Series, Volume 840, Issue 1, article id. 012028 (2017)

Binétruy P., Joel Mabillard, Mauro Pieroni. April 6, 2017.

Universality in generalized models of inflation

<https://arXiv:1611.07019v2> [gr-qc]

Blanchard, J. Siebert, J. Badro. 2017.

The solubility of heat-producing elements in Earth's core.

GPL, 5, 1-5.

Bourret S., Coelho J. and Van Elewyck V. for the KM3NeT Collaboration,

Neutrino oscillation tomography of the Earth with KM3NeT/ORCA

J. Phys. Conf. Ser. 888 (2017) 1, 012114

Bourret S., J. Coelho and V. Van Elewyck [for the KM3NeT Collaboration],

Neutrino oscillation tomography of the Earth with KM3NeT/ORCA

PoS(ICRC2017) 1020

Brossier J.F., S. Rodriguez, T. Cornet, A. Lucas, J. Radebaugh, L. Maltagliati, S. Le Mouélic, A. Solomonidou, A. Coustenis, M. Hirtzig, R. Jaumann, K. Stephan, and C. Sotin.

Titan's Equatorial Belt: Composition and Geomorphology from Cassini/VIMS and RADAR data,

under review in J. Geophys. Res. Planets.

Brunet, M., Moretti, L., Le Friant A., Mangeney, A., Fernandez-Nieto, Enrique, D., Bouchut, F. (2017)

Numerical simulation of the 30-45 Ka debris avalanche flow of Montagne Pelée volcano, Martinique: from volcano flank collapse to submarine emplacement.

Natural Hazards, 87-2:1189-1222

Busigny, V., Marin-Carbonne, J., Muller, E., Cartigny, P., Rollion-Bard, C., Assayag, N. and Philippot, P. (2017)

Iron and sulfur isotope constraints on redox conditions associated with barite deposits from the 3.2 Ga Mapepe Formation (Barberton Greenstone Belt, South Africa).

Geochim. Cosmochim. Acta, 210, 247–266.

Casse F., P. Varniere & Z. Meliani, 2017,

Impact of the gravity of a Schwarzschild black hole upon the Rossby wave instability

MNRAS Vol. 464, 3704

Charbonnier, Moynier, Bouchez, 2017

Ba isotope geochemistry.

In review to Science Bulletin.

Chaussidon, M. Deng, ZB, Villeneuve, J., Moureau, J., Richter, F., Moynier, F. 2017

In situ analysis of non-traditional isotopes by SIMS and LA-MC-ICP-MS: key aspects and the example of Mg isotopes in olivines and silicate glasses.

Review in mineralogy and geochemistry. Vol. 82. 127-164

Chavrit, D., Moreira, M. Moynier, F. 2017

Unusual neon isotopic composition in Neoproterozoic sedimentary rocks: fluorine bearing minerals or impact event?

Precambrian Research. In review.

Coelho J. for the KM3NeT Collaboration,

Probing new physics with atmospheric neutrinos at KM3NeT/ORCA

J. Phys. Conf. Ser. 888 (2017) 1, 012115

Coughlam, C.P. et al. (incluant S. Corbel) 2017,

A LOFAR Detection of the Low-mass Young Star T Tau at 149 MHz

Astrophys. J., 834, 206

Creech, J., Moynier, F. Bizzarro, M.

Tracing metal/silicate segregation and late veneer in the Earth and in the ureilite parent body with palladium stable isotopes.

GCA. 216, 28-41.

Creech, J., Moynier, F., *Badullovich, N. 2017.

Tin stable isotope analysis of geological materials by double-spike MC-ICPMS.

Chem. Geol. 457, 61-67.

Creech, J., Baker, J., Handler, M., Lorand, JP, Storey, M. Moynier, F. Bizzarro, M.,

Late accretion history of terrestrial planets inferred from stable isotopes.

GPL. 2017. 2, 94-104

DarkSide Collaboration,

The Electronics, Trigger and Data Acquisition System for the Liquid Argon Time Projection Chamber of the DarkSide-50 Search for Dark Matter

JINST 12 (2017) no.12, P12011

DarkSide Collaboration,

Effect of Low Electric Fields on Alpha Scintillation Light Yield in Liquid Argon

JINST 12 (2017) P01021

DarkSide Collaboration, 2017

DarkSide-20k: A 20 Tonne Two-Phase LAr TPC for Direct Dark Matter Detection at LNGS

arXiv:1707.08145 (2017)

DarkSide Collaboration, 2017

Effect of Low Electric Fields on Alpha Scintillation Light Yield in Liquid Argon

JINST 12 (2017) P01021

DarkSide Collaboration, 2017.

Simulation of argon response and light detection in the DarkSide-50 dual phase TPC,

JINST 12 (2017) P10015

Daubar I. et al. (P. Lognonné, S. Rodriguez and A. Lucas included), 2017

Impact-Seismic Investigations of the InSight Mission

submitted to SSR.

Day, J., Moynier, F., Shearer, C. 2017.

Last stage magmatic degassing from a volatile depleted Moon.

PNAS. 10.1073/pnas.1708236114

Delage, P., Karakostas, F., Dhemaied, A. , Belmokhtar, M., Lognonné P., Golombek, M., De Laure, E., Hurst, K., Dupla, J.C., Keddar, S., Cui, Y.J., Banerdt, W.B., An Investigation of the Mechanical Properties of Some Martian Regolith Simulants with Respect to the Surface Properties at the InSight Mission Landing Site, Space Sci Rev, 211, 191–213, doi: <https://doi.org/10.1007/s11214-017-0398-9>, 2017.

Dhaliwal, JK, Day, J., Moynier, F. 2017.

Volatile element loss during planetary magma ocean phases.

Icarus. In press.

Domcke, Valerie (APC, Paris), Francesco Muia (Paris Cent. Cosmol. Phys.), Mauro Pieroni, Lukas T. Witkowski (APC, Paris). Apr 11, 2017.

PBH dark matter from axion inflation

<https://arXiv:1704.03464v2> [astro-ph.CO]

Domcke, Valerie, and Kai Schmitz. February 9, 2017

A Unified Model of D-Term Inflation

<https://arxiv.org/pdf/1702.02173> [hep-ph]

Domcke, Valerie, Martin Spinrath April 11, 2017

Detection prospects for the Cosmic Neutrino Background using laser interferometers

<https://arxiv.org/abs/1703.08629> [astro-ph.CO]

Double Chooz Collaboration, 2017

Cosmic-muon characterization and annual modulation measurement with Double Chooz detectors

JCAP 1702 (2017) no.02, 017

Egron, E. et al, 2017,

Single-dish and VLBI observations of Cygnus X-3 during the 2016 giant flare episode

MNRAS Vol. 471, 2703

Egron, E. et al. (incluant S. Corbel) 2017,

Single-dish and VLBI observations of Cygnus X-3 during the 2016 giant flare episode

Mon. Not. R. Astron. Soc., 471, 2703

Emami, Razieh; Tom Broadhurst, Pablo Jimeno, George Smoot, Raul Angulo, Jeremy Lim, Ming Chung Chu, Ruth Lazkoz 18 Novembre 2017

Evidence of Neutrino Enhanced Clustering in a Complete Sample of Sloan Survey Clusters, Implying

arXiv:1711.05210v2 [astro-ph.CO]

Emami, Razieh, and George F. Smoot. September 26, 2017.

Observational Constraints on the Primordial Curvature Power Spectrum

<https://arXiv:1705.09924v2> [astro-ph.CO]

Fadel A., Lepot K., Busigny V, Addad A, Troadec D., (2017).

Iron mineralization and taphonomy of microfossils of the 2.45–2.21 Ga Turee Creek Group, Western Australia.

Precamb. Res., 298, 530–551.

Franco D. and Saviano N., 2017

Particle Physics in the Cosmos

PoS NOW2016 (2017) 095

Gómez H., C. Goy, Y. Karyotakis, S. Katsanevas, J. Marteau, A. Tonazzo, D. Gibert, K. Jourde, M. Rosas-Carbajal, 2017

Forward scattering effects on muon imaging

JINST 12 (2017) no.12, P1201

Hervet O., Z. Meliani et al., 2017,

Shocks in relativistic transverse stratified jets, a new paradigm for radio-loud AGN.

A&A Vol. 606, 103

Higgins A.B., R.L.C. Starling, D. Götz, et al., 2017,

Investigating the nature of INTEGRAL Gamma-Ray Bursts and sub-threshold triggers with Swift follow-up

MNRAS, 470, 314

Hung C. P., A. S. Brun, A. Fournier, L. Jouve, O. Talagrand, and M. Zakari, 2017

Estimating the Solar Meridional Flow and Predicting the 11-yr Cycle Using Advanced Variational Data Assimilation Techniques, Space Weather of the Heliosphere: Processes and Forecasts

Proceedings IAU Symposium No. 335, 2017, Claire Foullon & Olga Malandraki, ed

Hung, C. P. , A. S. Brun, A. Fournier, L. Jouve, O. Talagrand, and M. Zakari, 2017

Variational estimation of the large-scale time-dependent meridional circulation in the Sun: proofs of concept with a solar mean field dynamo model

The Astrophysical Journal, 849:160 (24pp), 2017. doi: 10.3847/1538-4357/aa91d1

Hyodo R., Charnoz S., Ohstuski K., Genda H.

Ring formation around giant planets through a single tidal disruption of a passing large Kuiper belt object.

Icarus 282, 195-213, 2017.

Hyodo R., Charnoz S., Ohtsuki K., Genda H., 2017.

Ring formation around giant planets by tidal disruption of a single passing large Kuiper belt object.

Icarus 282, 195-213

Hyodo R., Genda H., Charnoz S., Rosenblatt P., 2017.

On the Impact Origin of Phobos and Deimos.

I. Thermodynamic and Physical Aspects. ApJ 845, id. 125

Jaupart, E., Charnoz, S. and Moreira, M. (2017)

Primordial atmosphere incorporation in planetary embryos and the origin of terrestrial Neon

Icarus 293, 199-205.

Jaupart, E., Charnoz, S. and Moreira, M. 2017

Primordial atmosphere incorporation in planetary embryos and the origin of terrestrial Neon.

Icarus 293, 199-205.

Kato and Moynier. 2017

Gallium isotopic evidence for a volatile depleted Moon.

Science Advances. 3 (7), e1700571

Kato and Moynier. 2017.

Gallium isotopic evidence for the origin of moderately volatile elements in planetary materials.

479, 430-439. EPSL.

Kato, C., Moynier, F., Foriel, J., Teng, FZ, Puchtel, I. 2017

The gallium isotopic composition of the bulk silicate Earth.

Chem Geol. 448, 164-172

KM3NeT Collaboration: S. Adrián-Martínez et al.,

KM3NeT 2.0 – Letter of Intent for ARCA and ORCA.

J. Phys. G: Nucl. Part. Phys. 43 (2016) 084001 (published after the 2016 SC)

Kumar Hazra, Dhiraj, Daniela Paoletti, Mario Ballardini, Fabio Finelli, Arman Shafieloo, George F. Smoot, Alexei A. Starobinsky. Oct.3, 2017

Probing features in inflaton potential and reionization history with future CMB space observations

<https://arXiv:1710.01205v1> [astro-ph.CO]

Kumar Hazra, Dhiraj, George F. Smoot. August 16, 2017

Witnessing the reionization history using Cosmic Microwave Background observation from Planck

<https://arXiv:1708.04913v1> [astro-ph.CO]

Loh, A., Corbel, S., Dubus, G., 2017,

Fermi/LAT detection of a transient gamma-ray flare in the vicinity of the binary star DG CVn
Mon. Not. R. Astron. Soc., 467, 4462,

Lü, P., C. Narteau, Z. Dong, O. Rozier, S. Courrech du Pont. 2017

Unraveling raked linear dunes to assess sediment flux in complex dunefields,

Nature Communication 8, 14239, doi:10.1038/ncomms14239

Lucas A., S. Rodriguez, F. Lemonnier, A. Le Gall, C. Ferrari, P. Paillou, C. Narteau. 2017.

Texture and composition of Titan's equatorial sand seas inferred from Cassini SAR data: Implications for aeolian transport and dune morphodynamics at Saturn's largest moon,
J. Geophys. Res. Planets.

Lv, P., C. Narteau, Z. Dong, O. Rozier, S. Courrech du Pont.

Unravelling raked linear dunes to assess sediment flux in complex dunefields

Nature Communication 8, 14239, doi:10.1038/ncomms14239, 2017.

Magna, T. Zak, K., Pack, A., Moynier, F. Mougél, B., Skala R., Jonasova S., Mizera J., Randa, Z. 2017

Zhamanshin astrobleme: O-Cr evidence for a carbonaceous chondrite impactor.

Nature Communications. DOI: 10.1038/s41467-017-00192-5

Mahan, B. M., Siebert, J., Pringle, E., Moynier, F., 2017.

Elemental partitioning and isotopic fractionation of Zn between metal and silicate and estimation of the S content of the Earth's core.

Geochimica et Cosmochimica Acta, 196, 252-270, doi:10.1016/j.gca.2016.09.013

Mahan, B., Siebert, J., Pringle, E., Moynier, F.

Elemental partitioning and isotopic fractionation of Zn between metal and silicate and geochemical estimation of the S content of the Earth's core.

2017 GCA, 196, 252-270

Margutti, R.... Migliori, G. et al, 2017

X-rays from the location of the Double-humped Transient ASASSN-15lh

ApJ, 836, 25

Meliani Z., F. Casse, P. Grandclement, E. Gourgoulhon, 2017,

On tidal disruption of clouds and disk formation near boson stars

Class. & Quant. Gravity Vol. 34, 225003

Migliori, G., Corbel, S., Tomsick, J. A., Kaaret, P., Fender, R. P., Tzioumis, A. K., Coriat, M., Orosz, J. A. 2017,

Evolving morphology of the large-scale relativistic jets from XTE J1550-564

Mon. Not. R. Astron. Soc. 472, 141,

Morard G., D. Andrault, D. Antonangeli, Y. Nakajima, A.L. Auzende, E. Boulard, S. Cervera, A. Clark, O.T. Lord, J. Siebert, V. Svitlyk, G. Garbarino, M. Mezouar.

Structure and density of Fe-C liquid alloys under high pressure.

In press. GRL

Moreira, M., Rouchon, V., Muller, E. and Noirz, S. (2017)

The xenon isotopic signature of the mantle beneath Massif Central

Geochemical Perspective Letters 6, 28–32.

Mougel, B., Moynier F., Goepel, C.

Chromium isotopic homogeneity between the Earth, the Moon and enstatite chondrites.

2017 EPSL. In press.

Mousis O., Charnoz S., et al., 2017.

Scientific rationale for Uranus and Neptune in situ explorations.

Submitted to PSS

Moynier, F., Fike, D., Menard, G., Fisher, W., Grotzinger, J., Agranier, A. 2017

Fe isotopes and the redox state of the ediacaran ocean.

Accepted with revision to Geology.

Moynier, F., Vance, D., Fujii, T., Savage, P. 2017

The Cu and Zn isotope geochemistry.

Mineralogy and Geochemistry. 2017. Vol. 82, 543-600

Moynier, F., Vance, D., Fujii, T., Savage, P. 2017.

The Cu and Zn isotope geochemistry.

Review in Mineralogy and Geochemistry. Vol. 82, 543-600

Muller, E., Ader, M., Chaduteau, C., Cartigny, P., Baton, F. and Philippot, P. (2017)

The use of chromium reductio analysis of organic carbon and inorganic sulfur isotope compositions in Archean rocks.

Chem. Geol. 457, 68-74.

Muller, E., Philippot, P., Rollion-Bard, C., Cartigny, P., Assayag, N., Marin-Carbonne, J., Ram Mohan, M. and Srinivasa Sarma, D. (2017)

Primary sulfur isotope signatures preserved in high-grade Archean barite deposits of the Sargur Group, Dharwar Craton, India.

Precamb. Res. 295, 38-47.

N. Globus, D. Allard, E. Parizot, C. Lachaud, T. Piran, 2017,

Can we reconcile the TA Excess and Hotspot with Auger Observations?

ApJ, 836, 163

Paniello, R., Moynier F., 2017

Zn isotopes composition of ordinary chondrites.

In revision to GCA.

Peron, S., Moreira, M., Putlitz, B. and Kurz, M.D. (2017)

Solar wind implantation supplied light volatiles during the first stage of Earth accretion

Geochemical perspective letters 3, doi: 10.7185/geochemlet.1718.

Peron, S., Moreira, M., Putlitz, B. and Kurz, M.D. 2017

Solar wind implantation supplied light volatiles during the first stage of Earth accretion.

GPL 3, doi: 10.7185/geochemlet.1718.

Philippot, P., Ávila, J., Killingsworth, B., Tessalina, S., Baton, F., Caquineau, T., Muller, E., Pecoits, E., Cartigny, P., Lalonde, S., Ireland, T., Thomazo, C., Van Kranendonk, M.J. and Busigny, V. (2017)
Globally asynchronous sulphur isotope signals require re-definition of the Great Oxidation Event.

Nature Communications.

Pringle, E., Moynier, F. 2017

Rubidium isotopic composition of the Earth, meteorites, and the Moon: evidence for the origin of volatile loss during planetary accretion.

EPSL. 473, 62-70

Pringle, E.A., Moynier, F., Beck, P., Paniello, R., Hezel, D.C., 2017.

The origin of volatile element depletion in early solar system material: clues from Zn isotopes in chondrules.

Earth Plan. Sci. Lett, EPSL, 468, 62-71

Rodovská, Z., Magna, T., Zak, K., Kato, C., Savage, P., Moynier, F., Skala, R., Jezek, J. 2017.

Implications for behavior of volatile elements during impacts – zinc and copper systematics in sediments from the Ries impact structure and central European tektites.

MAPS. In press.

Salafia O.S., M. Colpi, M. Branchesi, E. Chassande-Mottin, G. Ghirlanda, G. Ghisellini, S. Vergani, 2017,
Where and When : Optimal Sheduling of the Electromagnetic Follow-up of Grawitational-wave Events Based on Counterpart Light-curve Model

ApJ, 846, 62

Sforna, M.C., Daye, M., Philippot, P., somogyi, A., van Zuilen, M.A., Medjoubi, K., Gérard, M., Jamme, F., Dupraz, C., Braissant, O., Glunk, C. and Visscher, P. (2017)

Patterns of metal distribution in hypersaline microbialites during early diagenesis: Implications for the fossil record.

Geobiology 15, 259-279.

Shapiro, N.M., D.V. Droznin, S.Ya. Droznina, S.L. Senyukov, A.A. Gusev, and E.I. Gordeev (2017),

Deep and shallow long-period volcanic seismicity linked by fluid-pressur transfer.

Nature Geosciences, doi:10.1038/ngeo2952.

Shebalin P., C. Narteau., 2017.

Depth dependent stress revealed by aftershocks

Nature Communication 8, 14239, NCOMMS-17-04443B

Siebert, J., P. Sossi, I. Blanchard, B. Mahan, J. Badro, F. Moynier.

Chondritic Mn/Na ratio and limited post-nebular volatile loss of the Earth.

In revision to EPSL.

Sossi, P. Moynier, F. Chaussidon, M., Villeuneuve, J., Kato, C., Gounelle, M. 2017

Early Solar System Irridiation revealed by correlated vanadium and beryllium isotope variations in meteorites.

2017 Nature Astronomy. 10.1038/s41550-017-0055

Sossi, P., Moynier, F. 2017

Chemical and isotopic kinship of iron in the Earth and Moon deduced from the lunar Mg-Suite.

EPSL. 471, 125-135

Sossi, P., Nebel, O., O'Neill, H., Moynier, F.

Progressive Accretion of Earth's Moderately Volatile Elements revealed by Zn Isotopes.

In review to Chem. Geol.

Spiga A. et al. (P. Lognonné, S. Rodriguez and A. Lucas included), 2017

Atmospheric Science with InSight

submitted to SSR.

Thiriet, C., C. Michaut, A.-C. Plesa, D. Breuer, 2017

Hemispheric dichotomy in lithosphere thickness on Mars caused by differences in crustal structure and composition,

accepted to JGR Planets, 2017.

Vallée et al., (2017)

Observation and modeling of the elasto-gravity signal preceding the direct seismic waves

Science 358, 1164–1168

Varniere P. & Vincent F., 2017,

Reproducing the Correlations of Type C Low-frequency Quasi-periodic Oscillation Parameters in XTE J1550-564 with a Spiral Structure

ApJ Vol. 834, 188

Ader M., Thomazo C., Sansjofre P., Busigny V., Papineau D., Laffont R., Cartigny P., Halverson G.P., 2016.
Interpretation of the nitrogen isotopic composition of Precambrian sedimentary rocks: Assumptions and perspectives.

Chemical Geology 429, 93-110.

Adrián-Martínez S. et al , 2016,

Limits on Dark Matter Annihilation in the Sun using the ANTARES Neutrino Telescope

Physics Letters B, Volume 759, 10 August 2016, Pages 69–74

Adrián-Martínez S. et al. , 2016

Results of the search for Secluded Dark Matter in the Sun with the ANTARES neutrino telescope

Accepted by JCAP 25th April 2016

Adrián-Martínez S. et al. [KM3NeT Collaboration], (2016)

Letter of Intent for KM3NeT Phase 2

J.Phys. G43 no.8, 084001

Amor M., Busigny V., Louvat P., Gélabert A., Cartigny C., Durand-Dubief M., Ona-Nguema G., Alphanbéry E., Chebbi I., Guyot F., 2016.

Mass-dependent and -independent signature of Fe isotopes in magnetotactic bacteria.

Science 352, 705-708.

Appleby, Stephen; Jinn-Ouk Gongb, Dhiraj Kumar Hazrab, Arman Shafielooe, Spyros Sypsasb

Direct search for features in the primordial bispectrum

July 2016, ScienceDirect – Physics Letters B <http://dx.doi.org/10.1016/j.physletb.2016.07.004>

Armano et al. 2016

Sub-Femto-g Free Fall for Space-Based Gravitational Wave Observatories: LISA Pathfinder Results.

Physical ReviewLetters (2016) vol. 116 pp. 231101

Badro, J., J. Siebert, F. Nimmo,

An early geodynamo driven by exsolution of mantle components from Earth's core

Nature 536, 326, 2016.

Baghi Q., Métris G., Bergé J., Christophe B., Touboul P., Rodrigues M.,

Gaussian regression and power spectral density estimation with missing data: The MICROSCOPE space mission as a case study

2016, Physical ReviewD, 93, 122007

Baillie, K., S. Charnoz, E. Pantin.

Trapping of planets in an evolving protoplanetary disk : preferred time, location and planet mass.

A&A 590, id.A60, 2016.

Bordier, G.; Cammilleri, V. D.; Belier, B.; et al. AUG 2016

Superconducting Coplanar switch and phase shifter for CMB applications

JOURNAL OF LOW TEMPERATURE PHYSICS Volume: 184 Issue: 3-4 Pages: 547-552

Broderick, J.W., ... Corbel, S. et al. 2016

Low-radio-frequency eclipses of the redback pulsar J2215+5135 observed in the image plane with LOFAR

MNRAS, 459, 2681.

Brunet, M., Le Friant, A., Boudon, G., Lafuerza, S., Talling, P., Hornbach, M., Lebas, E., Guyard, H., IODP Expedition 340 scientists, 2016.

Composition, geometry and emplacement dynamics of a large volcanic island landslide offshore Martinique: from volcano flank-collapse to seafloor sediment failure?

Geochemistry, Geophysics, Geosystems 17, doi:10.1002/2015GC006034

Carbone, D., .. Corbel, S. et al.

New methods to constrain the radio transient rate: results from a survey of four fields with LOFAR

MNRAS, 459, 316.

Cervantes-Cota, Jorge L., Salvador Galindo-Uribarri, George F. Smoot, Sept. 2016,

A Brief History of Gravitational Waves

Journal-ref: Universe 2016, 2(3), 22 e-print : arXiv:1609.09400 [astro-ph.HE]

Chaussidon, M. Deng, ZB, Villeneuve, J., Moureau, J., Richter, F., Moynier, F. 2016

In situ analysis of non-traditional isotopes by SIMS and LA-MC-ICP-MS: key aspects and the example of Mg isotopes in olivines and silicate glasses

Review in mineralogy and geochemistry. Vol. 82. 127-164

Chavrit, D., Moreira, M., Moynier, F.

Estimation of the extraterrestrial ^3He and ^{20}Ne fluxes on Earth from He and Ne systematics in marine sediments.

EPSL. 2016 436 10-18

Chen, H., Moynier, F., Bishop, C., Humayun, M. 2016

Cosmogenic effects on Cu isotopes in IVB irons : Implication for the ^{182}Hf - ^{182}W chronometry.

2016 GCA. 182, 145-154.

Cordier B., C. Lachaud, D. Götz, S. Schanne, S. Vergani, E. Le Floc'h, L. Gosset, V. Beckmann, A. Claret, A. Goldwurm

The Deep and Transient Universe: New Challenges and Opportunities Scientific prospects of the SVOM mission.

White Book in support of the SVOM mission (via the svom.fr website and on astro-ph)

Covino S. and D. Götz, 2016

Polarization of prompt and afterglow emission of Gamma-Ray Bursts

Astronomical and Astrophysical Transactions, 29, 2

Creech, J. Baker, J., Handler, M., Lorand, JP, Storey, M. Moynier, F. Bizzarro, M.,

Late accretion history of terrestrial planets inferred from stable isotopes.

GPL. 2017. 2, 94-104

Crosley, M.K. ...Corbel, S. et al. 2016

The Search for Signatures Of Transient Mass Loss in Active Stars

ApJ, 830, 24.

DarkSide Collaboration

CALIS - a CALibration Insertion System for the DarkSide-50 dark matter search experiment
arXiv:1611.027501 (2016), submitted to JINST.

DarkSide Collaboration, 2016

The Electronics and Data Acquisition System for the DarkSide-50 Veto Detectors
JINST 11 (2016) P12007

DarkSide Collaboration, 2016

The Veto System of the DarkSide-50 Experiment,
JINST 11 (2016) 3, 03016

DarkSide Collaboration, 2016

Results from the first use of low radioactivity argon in a dark matter search,
Phys. Rev. D 93, 081101 (2016)

Das, Kumar; Valerie Domcke, Koushik Dutta, Dec 2016

Supergravity Contributions to Inflation in models with non-minimal coupling to gravity
<https://arxiv.org/abs/1612.07075> [hep-ph]

Debono, Ivan, George F. Smoot, Sept. 2016,

General Relativity and Cosmology: Unsolved Questions and Future Directions
Journal-ref: Universe. 2016; 2(4):23, e-print : arXiv:1609.09781 [astro-ph.CO]

Defouilloy, C., Cartigny, P., Assayag, N., Moynier, F., Barrat, JA. 2016

High-precision Sulfur isotope (³²S, ³³S, ³⁴S, ³⁶S) composition of enstatite meteorites and implications of the formation and evolution of their parentbodies.
GCA. 172, 393-409

Del Santo, M., ... Corbel, S, ... Rodriguez, J. et al.

Spectral and timing evolution of the bright failed outburst of the transient black hole Swift J174510.8-262411
2016, MNRAS, 456, 3585.

Del Santo, M., ... Corbel, S, ... Rodriguez, J. et al. 2016

Spectral and timing evolution of the bright failed outburst of the transient black hole Swift J174510.8-262411
MNRAS, 456, 3585.

Delage, P., F. Karakostas, A. Dhemaied, M. Belmokhtar, P.Lognonné, M. Golombek, E. De Laure, K. Hurst, J.-C.Dupla, S. Keddar, Y. Jun Cui and B.Banerdt, 2016

An Investigation of the Mechanical Properties of Some Martian Regolith Simulants with Respect to the Surface Properties at the InSight Mission Landing Site
Space Sci. Rev., doi:10.1007/s11214-017-0339-7.

Domcke, Valerie, Mauro Pieroni, Pierre Binétruy; Mar 3, 2016

Primordial gravitational waves for universality classes of pseudoscalar inflation
e-Print: arXiv:1603.01287 [astro-ph.CO]

Double Chooz Collaboration,

Cosmic-muon characterization and annual modulation measurement with Double Chooz detectors
arXiv:1611.07845 [hep-ex], published in JCAP 1702 (2017) no.02, 017

Double Chooz Collaboration, 2016

Measurement of θ_{13} in Double Chooz using neutron captures on hydrogen with novel background rejection techniques

JHEP 1601 (2016) 163

Double Chooz Collaboration, 2016

Muon capture on light isotopes measured with the Double Chooz detector

Phys.Rev. C93 (2016) no.5, 054608

Franco Davide, C. Giganti, P. Agnes, L. Agostino, B. Bottino, S. Davini, S. De Cecco, A. Fan, G. Fiorillo, C. Galbiati A.M. Goretti, E.V. Hungerford, Al. Ianni, An. Ianni, C. Jollet, L. Marini, C.J. Martoff, A. Meregaglia, L. Pagani, M. Pallavicini, E. Pantic, A. Pocar, A.L. Renshaw, B. Rossi, N. Rossi, Y. Suvorov, G. Testera, A. Tonazzo, H. Wang, S. Zavatarelli

Solar neutrino detection in a large volume double-phase liquid argon experiment,

JCAP 1608 (2016) 8, 017

Frank, W.B., N.M. Shapiro, A.L. Husker, V. Kostoglodov, A.A. Gusev, and M. Campillo,

The evolving interaction of low-frequency earthquakes during transient slip

Science Advances, 2, doi: 10.1126/sciadv.1501616, 2016.

Frank, W.B., N.M. Shapiro, A.L. Husker, V. Kostoglodov, A.A. Gusev, and M. Campillo, 2016.

The evolving interaction of low-frequency earthquakes during transient slip

Science Advances, 2, doi: 10.1126/sciadv.1501616.

Fürst, F. ...Corbel, S., ... Loh, A. et al.

GRS 1739-278 observed at very low luminosity with XMM-Newton and NuSTAR

ApJ, 832, 115.

G. Cella (INFN, Pisa), M. Pieroni (APC, Paris & Paris Cent. Cosmol. Phys.). June 16, 2016.

A simple model for the evolution of a non-Abelian cosmic string network.

e-Print: arXiv:1512.02117 [astro-ph.CO]

Gao, X., C. Narteau, O. Rozier.

Controls on and effects of armoring and vertical sorting in aeolian dune fields: A numerical simulation study

GRL 43, 2614–2622, doi:10.1002/2016GL068416, 2016.

Ghirlanda G., O.S. Salafia, ..., E. Chassande-Mottin, ..., D. Götz, S.D. Vergani, 2016

Short GRBs at the dawn of the gravitational wave era

2016, A&A, 594, 84

Girard, J., ... Corbel, S. et al., 2016

Imaging Jupiter's radiation belts down to 127 MHz with LOFAR

A&A, 587, 3.

Gómez H., C. Carloganu, D. Gibert, J. Jacquemier, Y. Karyotakis, J. Marteau, V. Niess, S. Katsanevas, A. Tonazzo. (2016)

Studies on muon tomography for archaeological internal structures scanning

J.Phys.Conf.Ser. 718 no.5, 052016

Hyodo R., Charnoz S., Genda H., Ohstuki K., 2016.

Formation of Centaurs' Rings through Their Partial Tidal Disruption during Planetary Encounters.

ApJL 828, id L8

Hyodo R., Charnoz S., Genda H., Ohtsuki K. 2016.

Formation of diverse ring-satellite systems around Centaurs through tidal disruption at close encounters with giant planet.

ApJ letters. Id. L8

Japelj J., S. Vergani, ..., E. Le Floch, et al., 2016

Are long gamma-ray bursts biased tracers of star formation? Clues from the host galaxies of the Swift/BAT6 complete sample of bright LGRBs. II. Star formation rates and metallicities at $z < 1$

A&A, 590, 129

Kato, C., Moynier, F., Foriel, J., Teng, FZ, Puchtel, I.

The gallium isotopic composition of the bulk silicate Earth.

Chemical Geology. 448, 164-172

KM3NeT Collaboration: S. Adrián-Martínez et al. 2016

KM3NeT 2.0 – Letter of Intent for ARCA and ORCA

J. Phys. G: Nucl. Part. Phys. 43 (2016) 084001

Kondratiev, V.I. ... Corbel, S. et al., 2016

A LOFAR Census of Millisecond Pulsars,

A&A, 585, 128.

Koulakov, I., E. Kasatkina, N.M. Shapiro, C. Jaupart, A. Vasilevsky, S. El Khrepy, N. Al-Arifi, and S. Smirnov,
The feeder system of the Toba supervolcano from the slab to the shallow reservoir

Nature Communications, DOI: 10.1038/ncomms12228, 2016c.

Koulakov, I., G. Maksotova, K. Jaxybulatov, E. Kasatkina, N.M. Shapiro, B.-G. Luehr, S. El Khrepy, N. Al-Arifi, (2016).

Structure of magma reservoirs beneath Merapi and surrounding volcanic centers of Central Java modeled from ambient noise tomography

Geochemistry, Geophysics, Geosystems, DOI: 10.1002/2016GC006442.

Lognonné, P., Karakostas, F., Rolland, L., Nishikawa, Y.,

Modeling of atmospheric-coupled Rayleigh waves on planets with atmosphere: From Earth observation to Mars and Venus perspectives,

J. Acoust. Soc. Am. 140 (2),1447-1468, doi: 0001-4966/2016/140(2)/1447/22, 2016.

Loh A., Corbel S., Dubus G., Rodriguez J., Grenier I., Hovatta T., Pearson T., Readhead A., Fender R., Mooley K., 2016

High-energy γ -ray observations of the accreting black hole V404 Cygni during its 2015 June outburst

MNRAS Vol. 462, L111

Loh, A., Corbel, S., Dubus, G., Rodriguez, J., Grenier, I., Hovatta, T., Pearson, T., Readhead, A., Fender, R., Mooley, K. 2016

High-energy gamma-ray observations of the accreting black hole V404 Cygni during its 2015 June outburst

MNRAS, 462, L111.

Lv P., Z. Dong, C. Narteau, O. Rozier.

Morphodynamic mechanisms for the formation of asymmetric barchans: improvement of the Bagnold and Tsoar models

Environmental Earth Sciences, 75:259, doi:10.1007/s12665-015-5083-2, 2016.

Marcotte, B. ... Corbel, S. et al., 2016

Orbital and superorbital variability of LS I +61 303 at low radio frequencies with GMRT and LOFAR

2016, MNRAS, 456, 1791.

Marrocchi Y., Chaussidon M., Piani L. & Libourel G., 2016,

Early scattering of the solar protoplanetary disk recorded in meteoritic chondrules.

Science Adv. vol. 2, no 7, p. e1601001.

Meliani Z., Grandclément P., Casse F., Vincent, F.H., Straub, O., Dauvergne, F., 2016

GR-AMRVAC code applications: accretion onto compact objects, boson stars versus black holes

Classical and Quantum Gravity, Vol. 33, 15501

Michaut, C., M. Thiriet and C. Thorey, 2016.

Insights into mare basalt thicknesses on the Moon from intrusivemagmatism,

Phys. Earth Planet. Int. 257, p.187-192, doi:10.1016/j.pepi.2016.05.019

Migliori, G., 2016

The high-energy view of young radio sources: X-ray and gamma-ray observations

AN, 337, 52.

Migliori, G., ..., Loh, A., Corbel, S. et al. 2016

First Detection in Gamma-Rays of a Young Radio Galaxy: Fermi-LAT Observations of the Compact Symmetric Object PKS 1718-649

ApJ, 821, 103.

Montagner J.-P. et al., 2016

Prompt gravity signal induced by the 2011 Tohoku-Oki earthquake

Nature Communications 7, 133349 (2016)

Morag, N., Williford, K.H., Kitajima, K., Philippot, P., Van Kranendonk, M.J., Lepot, K., Valley, J.W., 2016.

Microstructure -specific carbon isotopic signature of organic matter from ~3.5 Ga cherts of the Pilbara Craton support biologic origin.

Precamb. Res. 275, 429–449.

Moreira M., S. Charnoz,

Origin of the Neon Isotopes in Chondrites and on the Earth

EPSL 433, 249-256, 2016

Muller E., Philippot P., Rollion-Bard C., Cartigny P., 2016.

Multiple sulfur-isotope signatures in Archean sulfates and their implications for the chemistry and dynamics of the early atmosphere.

Proc. Nat. Acad. Sci. 113, 7432–7437.

Nicola Bartolo, Chiara Caprini, Valerie Domcke, Daniel G. Figueroa, Juan Garcia-Bellido, Maria Chiara Guzzetti, Michele Liguori, Sabino Matarrese, Marco Peloso, Antoine Petiteau, Angelo Ricciardone, Mairi Sakellariadou, Lorenzo Sorbo, Gianmassimo Tasinato, Dec 2016

Science with the space-based interferometer LISA. IV: Probing inflation with gravitational waves

<https://arxiv.org/abs/1610.06481> [astro-ph.CO]

Nofrarias et al., 2016

Optimal design of calibration signals in space-borne gravitational wave detectors.

Physical ReviewD (2016) vol. 93 pp. 102004

Pecoits, E., Aubet, N.R., Heaman, L.M., Philippot, P., Rosiere, C., Veroslavsky, G., Konhauser, K.O., 2016.
U-Pb detrital zircon ages from some Neoproterozoic successions of Uruguay: provenance, stratigraphy and tectonic evolution.

Journal of South American Earth Sciences 71, 108-130.

Peris, C., Rmillard, R., Steiner, J., Vrtilek, S., Varniere P., Rodriguez, J., Pooley G., 2016

X-Ray Spectral Analysis of the Steady States of GRS1915+105

Astrophysical Journal, Vol. 822, 19

Péron, S., M. Moreira , A. Colin, L. Arbaret, N. Putlitz and M. D. Kurz. , 2016

Neon isotopic composition of the mantle constrained by single vesicle analyses.

Earth and Planetary Science Letters 449: 145–154

Piet, H., J. Badro, F. Nabiei, T. Dennenwaldt, S.-H. Shim, M. Cantoni, C. Hébert, Ph. Gillet,

Spin and valence dependence of iron partitioning in Earth's deep mantle

PNAS, 113, 11127, 2016.

Pires S., Bergé J., Baghi Q., Touboul P., Métris G., 2016,

Dealing with missing data in the MICROSCOPE space mission: An adaptation of inpainting to handle colored-noise data

Physical Review D, 94, 123015

Pringle, E., Moynier, F., Savage, P., Jackson, M., Moreira, M., Day, J. 2016

Silicon isotopes reveal recycled altered oceanic crust in the mantle sources of ocean island basalts.

GCA. 189, 282-295

Punsly, B., Rodriguez J., Trunshkin S.A., 2016

The Accretion Flow-Discrete Ejection Connection in GRS 1915+105

Astrophysical Journal Vol. 826, 5

Rana, V., Loh, A., Corbel, S. et al.

Characterizing X-Ray and Radio Emission in the Black Hole X-Ray Binary V404 Cygni during Quiescence

2016, ApJ, 821, 103.

Rosenblatt P., S. Charnoz , K. Dunseath, M. Terao-Dunseath, A. Trinh, R. Hyodo, H. Genda, S. Toupin., 2016.

Accretion of Phobos and Deimos in an extended debris disc stirred by transient moons.

Nature Geoscience, 9, 581-583

Scully, S.; Burke, D.; O'Sullivan, C.; et al.

Optical design and modelling of the QUBIC instrument, a next-generation quasi-optical bolometric interferometer for cosmology

Edited by: Holland, WS; Zmuidzinas, J

Seydoux, L., N. M. Shapiro, J. de Rosny, and M. Landès (2016),

Spatial coherence of the seismic wavefield continuously recorded by the USArray

Geophys. Res. Lett., 43, doi:10.1002/2016GL070320.

Shafieloo A., Dhiraj Kumar Hazra, Varun Sahni, Alexei A. Starobinsky, 17 Oct 2016

Metastable Dark Energy with Radioactive-like Decay

<https://arxiv.org/abs/1610.05192> [astro-ph.CO]

Shafieloo A., Kumar Hazra D., 24 Oct 2016

Consistency of the Planck CMB data and Λ CDM cosmology

<https://arxiv.org/abs/1610.07402> [astro-ph.CO]

Shahar, A., Savage, P., Moynier, F. 2016

Stable isotope evidence for differentiation of planetesimals.

In. Planetesimals: Early Differentiation and Consequences for Planets. Cambridge University Press, Eds: Elkins-

Siegert T., Diehl R., Greiner J., Krause M., Belodorov A., Cadolle-Bel M., Guglielmetti, F., Rodriguez J., Strong A., Zhang X., 2016

Positron annihilation signatures associated with the outburst of the microquasar V404 Cygni

Nature Vol. 531, 341

Siemiginowska, A., ... Migliori G. et al.; 2016

X-Ray properties of the youngest radio sources and their environments

2016, ApJ, 823, 57.

Sossi, P. Moynier, F. Chaussidon, M., Villeuneuve, J., Kato, C., Gounelle, M.

Early Solar System Irradiation revealed by correlated vanadium and beryllium isotope variations in meteorites.

Nature Astronomy. 2017. DOI: 10.1038/s41550-017-0055

Stewart, A. ... Corbel, S. et al. 2016

LOFAR MSSS: detection of a low-frequency radio transient in 400 h of monitoring of the North Celestial Pole

MNRAS, 456, 2321.

Stompor, Radek; Errard, Josquin; Poletti, Davide, Published: OCT 27 2016

Forecasting performance of CMB experiments in the presence of complex foreground contaminations

PHYSICAL REVIEW D Volume: 94 Issue: 8 Article Number: 083526

Tartari, A.; Aumont, J.; Banfi, S.; et al. AUG 2016

QUBIC: A Fizeau Interferometer Targeting Primordial B-Modes

Journal of low temperature physics volume: 184 issue: 3-4 pages: 739-745

Tartari, A.; Battistelli, E. S.; Piat, M.; et al., AUG 2016

CMB Science: Opportunities for a Cryogenic Filter-Bank Spectrometer

Journal of low temperature physics Volume: 184 Issue: 3-4 Pages: 780-785

Tartari, A.; Belier, B.; Bleuvacq, N.; et al., Jul 2016

LEKIDs as mm-Wave Polarisation Analysers: Fabrication, Test Bench and Early Results

JOURNAL OF LOW TEMPERATURE PHYSICS Volume: 184 Issue: 1-2 Pages: 167-172

Tenton and Weis. PP 246-260. Singh, S., T. B. McCord, J-Ph. Combe, S. Rodriguez, T. Cornet, S. Le Mouélic, R. N. Clark, L. Maltagliati, and V. F. Chevrier.

Acetylene on Titan's surface

The Astrophysical Journal, 828:55 (8pp), 2016.

Thorey, C. and C. Michaut, 2016.

Elastic-plated gravity currents with a temperature-dependent viscosity,

J. FluidMech. 805, p. 88-117, doi:10.1017/jfm.2016.538

Varniere P. & Vincent F.H., 2016

Impact of inclination on quasi-periodic oscillations from spiral structures

Astronomy & Astrophysics Vol. 591, 36

Varniere P., Mignon-Risse R., Rodriguez J., 2016

Impact of inclination on quasi-periodic oscillations from spiral structures

Astronomy & Astrophysics Vol. 586, 4

Vincent F.H., Meliani Z., Grandclément P., Gourgoulhon E., Straub O., 2016

Imaging a boson star at the Galactic center

Classical and Quantum Gravity Vol. 33, 5015

Vorobieva, I., P. Shebalin, C. Narteau., 2016.

Break of slope in earthquake size distribution and creep rate along the San Andreas Fault system,

GRL 43, 6869–6875, doi:10.1002/2016GL069636

Wang, X., Planavsky, N., Hofmann, A., Philippot, P., Lalonde, S., Jemison, N., De Corte, B.P., Zoua, H., Larson, M.J., Tsikos, H., Knudsen, A., Reinhard, C.T., Johnson, T.M., Konhauser, K.O., 2016.

A geochemical record of the emergence of oxygenic photosynthesis.

Proc. Nat. Acad. Sci., in third review.

Yuan W., ..., B. Cordier, ..., D. Götz, et al., 2016

Perspectives on Gamma-Ray Burst Physics and Cosmology with Next Generation Facilities

Space Science Review, 202, 235

Agostini, M; Appel, S; Bellini, G et al.; 2015

Spectroscopy of geoneutrinos from 2056 days of Borexino data

PHYSICAL REVIEW D Volume: 92 Issue: 6 3

Amor, M; Busigny, V; Durand-Dubief, M; Tharaud, M; Ona-Nguema, G; Gelabert, A; Alphantery, E; Menguy, N; Benedetti, MF; Chebbi, I; Guyot, F; 2015

Chemical signature of magnetotactic bacteria

Proceedings Of The National Academy Of Sciences Of The United States Of America Volume: 112 Issue: 6 Issue: 1699-1703

Armijo, R; Lacassin, R; Coudurier-Curveur, A; Carrizo, D, 2015.

Coupled tectonic evolution of Andean orogeny and global climate

Earth-Science Reviews, Volume: 143 Issue: 1-35

Badro, J; Brodholt, JP; Piet, H; Siebert, J; Ryerson, FJ;

Core formation and core composition from coupled geochemical and geophysical constraints

Proceedings Of The National Academy Of Sciences Of The United States Of America Volume: 112 Issue: 40 Pages: 12310-12314

Baghi, Q; Metris, G; Berge, J; Christophe, B; Touboul, P; Rodrigues, M, 2015.

Regression analysis with missing data and unknown colored noise: Application to the MICROSCOPE space mission

PHYSICAL REVIEW D Volume: 91 Issue: 6 Article Number: 062003

Baillie, K; Charnoz, S; Pantin, E

Time evolution of snow regions and planet traps in an evolving protoplanetary disk

Astronomy & Astrophysics Volume: 577, Article Number: A65

Berge, J; Pires, S; Baghi, Q; Touboul, P; Metris, G; 2015

Dealing with missing data: An inpainting application to the MICROSCOPE space mission

PHYSICAL REVIEW D Volume: 92 Issue: 11

Binetruy, P; Kiritsis, E; Mabilard, J; Pieroni, M; Rosset, C; 2015.

Universality classes for models of inflation

Journal Of Cosmology And Astroparticle Physics; Issue: 4, Article Number: 033

Binetruy, P.; Helou, A., 2015

The apparent Universe

Classical And Quantum Gravity Volume: 32

Blanchard, I; Badro, J; Siebert, J; Ryerson, FJ; 2015

Composition of the core from gallium metal-silicate partitioning experiments

Earth And Planetary Science Letters; Volume: 427; Pages: 191-201

Charnay, B; Barth, E; Rafkin, S; Narteau, C; Lebonnois, S; Rodriguez, S; du Pont, SC; Lucas, A; 2015.

Methane storms as a driver of Titan's dune orientation

Nature Geoscience Volume: 8 Issue: 5 Pages: 362-366

Charnoz, S; Aleon, J; Chaumard, N; Baillie, K; Taillifet, E; 2015

Growth of calcium-aluminum-rich inclusions by coagulation and fragmentation in a turbulent

protoplanetary disk: Observations and simulations

ICARUS Volume: 252 Issue: 440-453

Charnoz, S; Michaut, C; 2015

Evolution of the protolunar disk: Dynamics, cooling timescale and implantation of volatiles onto the Earth

ICARUS

Colin, A; Moreira, M; Gautheron, C; Burnard, P; 2015

Constraints on the noble gas composition of the deep mantle by bubble-by-bubble analysis of a volcanic glass sample from Iceland

Chemical Geology Volume: 417 Pages: 173-183

Consolati, G; Franco, D; Jollet, C; Meregaglia, A; Minotti, A; Perasso, S; Tonazzo, A; 2015

A new anti-neutrino detection technique based on positronium tagging with plastic scintillators

Nuclear Instruments & Methods In Physics Research Section A-Accelerators Spectrometers Detectors And Associated Equipment Volume: 795 Pages: 364-369

Coudurier-Curveur, A; Lacassin, R; Armijo, R; 2015

Andean growth and monsoon winds drive landscape evolution at SW margin of South America

Earth And Planetary Science Letters Volume: 414 Issue: 87-99

Cseh, D; Webb,; Godet, O; Barret, D; Corbel, S; Coriat, M; Falcke, H; Farrell, SA; Kording, E (;Lenc, E; Wrobel, JM; 2015

On the radio properties of the intermediate-mass black hole candidate ESO 243-49 HLX-1

Monthly Notices Of The Royal Astronomical Society Volume: 446 Issue: 4 Pages: 3268-3276

de Jong, S; Beckmann, V; Soldi, S; Tramacere,; Gros, A; 2015 v

High-energy emission processes in M87

Monthly Notices Of The Royal Astronomical Society Volume: 450 Issue: 4 Issue: 4333-4341

Dorfman, SM; Badro, J; Rueff, JP; Chow, P; Xiao, YM; Gillet, P; 2015.

Composition dependence of spin transition in (Mg,Fe)SiO₃ bridgmanite

American Mineralogist, Volume: 100, Issue: 10 Pages: 2246-2253

Droznin, N.M. Shapiro, S.Ya. Droznina, S.L. Senyukov, V.N. Chebrov, and E.I. Gordeev (2015),

Detecting and locating volcanic tremors on the Klyuchevskoy group of volcanoes (Kamchatka) based on correlations of continuous seismic records,

Geophys. J. Int., 203, 1001–1010, doi:10.1093/gji/ggv342.

El Mellah, I; Casse, F; 2015

Numerical simulations of axisymmetric hydrodynamical Bondi-Hoyle accretion on to a compact object

Monthly Notices Of The Royal Astronomical Society Volume: 454 Issue: 3 Pages: 2657-2667

Fujii, T; Pringle, EA; Chaussidon, M; Moynier, F; 2015

Isotope fractionation of Si in protonation/deprotonation reaction of silicic acid: A new pH proxy

Geochimica Et Cosmochimica Acta Volume: 168 Pages: 193-205

Furi, E; Chaussidon, M; Marty, B; 2015.

Evidence for an early nitrogen isotopic evolution in the solar nebula from volatile analyses

of a CAI from the CV3 chondrite NWA 8616

Geochimica Et Cosmochimica Acta Volume: 153 Issue: 183-201

Gao, X; Narteau, C; Rozier, O; 2015

Development and steady states of transverse dunes: A numerical analysis of dune pattern coarsening and giant dunes

Journal Of Geophysical Research-Earth Surface, Volume: 120 Issue: 10 Pages: 2200-2219

Gao, X; Narteau, C; Rozier, O; du Pont, SC; 2015

Phase diagrams of dune shape and orientation depending on sand availability

Scientific Reports, Volume: 5, Article Number: 14677

Garsden, H; Girard, JN; Starck, JL; Corbel, S et al.

LOFAR sparse image reconstruction

Astronomy & Astrophysics Volume: 575, Article Number: A90

Ghirlanda, G; Salvaterra, R et al.

Accessing the population of high-redshift Gamma Ray Bursts

Monthly notices of the royal astronomical society Volume: 448 Issue: 3 Issue: 2514-2524

Gleyzes, J; Langlois, D; Piazza, F; Vernizzi, F, 2015.

New Class of Consistent Scalar-Tensor Theories

PHYSICAL REVIEW LETTERS Volume: 114 Issue: 21, Article Number: 211101

Gudkova, T; Lognonne, P; Miljkovic, K; Gagnepain-Beyneix, J; 2015

Impact cutoff frequency - momentum scaling law inverted from Apollo seismic data

Earth And Planetary Science Letters, Volume: 427, Pages: 57-65

Harms, J; Ampuero, JP; Barsuglia, M; Chassande-Mottin, E; Montagner, JP; Somala, SN (Somala, S. N.); Whiting,; 2015.

Transient gravity perturbations induced by earthquake rupture

Geophysical journal international, Volume: 201 Issue: 3 Pages: 1416-1425

Hatano, T; Narteau, C; Shebalin, P; 2015.

Author Identifiers: Common dependence on stress for the statistics of granular avalanches and earthquakes SCIENTIFIC REPORTS Volume: 5 Article Number: 12280

Hopkins, AM; Whiting, MT; Seymour, N; Chow, KE; Norris, RP; Bonavera, L; Breton, R; Carbone, D; Ferrari, C; Franzen, TMO; Garsden, H; Gonzalez-Nuevo, J; Hales, CA; Hancock, PJ; Heald, G; Herranz, D; Huynh, M; Jurek, RJ; Lopez- Caniego, M; Massardi, M; Mohan, N; Molinari,; Orru,; Paladino, R; Pestalozzi, M; Pizzo, R; Rafferty, D; Rottgering, HJA; Rudnick, L; Schisano, E; Shulevski, A; Swinbank, J; Taylor, R; van der Horst, AJ, 2015

The ASKAP/EMU Source Finding Data Challenge

Publications Of The Astronomical Society Of Australia Volume: 32 Article Number: e037

Hyodo, R; Ohtsuki, K; 215.

Saturn's F ring and shepherd satellites a natural outcome of satellite system formation

Nature Geoscience Volume: 8 Issue: 9 Issue: 686-+

Jourde, K; Gibert, D; Marteau, J; 2015.

Improvement of density models of geological structures by fusion of gravity data and cosmic muon radiographies

Geoscientific Instrumentation Methods And Data Systems Volume: 4 Issue: 2 Issue: 177-188

Kato, C; Moynier, F; Valdes, MC; Dhaliwal, JK; Day, JMD 2015.

Extensive volatile loss during formation and differentiation of the Moon

NATURE COMMUNICATIONS Volume: 6 Article Number: 7617

Khalil, M; Laurent, P; Lebrun, F; Dolgorouky, Y; Limousin, O; Bertoli, W; Breelle, E; 2015

WPOL, a future space Compton wide field polarimeter: Optimization for polarimetry

Nuclear Instruments & Methods In Physics Research Section A-Accelerators Spectrometers Detectors And Associated Equipment Volume: 787 Pages: 288-292

Konhauser, KO; Robbins, LJ; Pecoits, E; Peacock, C; Kappler, A; Lalonde, SV; 2015

The Archean Nickel Famine Revisited

ASTROBIOLOGY Volume: 15 Issue: 10 Pages: 804-815

Kral, Q; Thebault, P; Augereau, JC; Boccaletti, A; Charnoz, S; 2015.

Signatures of massive collisions in debris discs A self-consistent numerical model

Astronomy & Astrophysics Volume: 573 Article Number: A39

Lu, WB; Kumar, P; Smoot, GF; 2015

Probing massive stars around gamma-ray burst progenitors

Monthly Notices Of The Royal Astronomical Society, Volume: 453, Issue: 2, Pages: 1458-1470

Lucas, A; Narteau, C; Rodriguez, S; Rozier, O; Callot, Y; Garcia, A; du Pont, SC; 2015

Sediment flux from the morphodynamics of elongating linear dunes

Geology Volume: 43 Issue: 11 Pages: 1027-1030

Luu, TH; Young, ED; Gounelle,; Chaussidon, M; 2015

Short time interval for condensation of high-temperature silicates in the solar accretion disk

Proceedings Of The National Academy Of Sciences Of The United States Of America Volume: 112 Issue: 5 Issue: 1298-1303

Mandea, M; Narteau, C; Panet, I; Le Mouel, JL; 2015.

Gravimetric and magnetic anomalies produced by dissolution-crystallization at the core-mantle boundary

Journal Of Geophysical Research-Solid Earth Volume: 120 Issue: 9 Pages: 5983-6000

Marrocchi, Y; Chaussidon, M

A systematic for oxygen isotopic variation in meteoritic chondrules

Earth And Planetary Science Letters Volume: 430 Pages: 308-315

Meliani, Z Vincent, FH; Grandclement, P; Gourgoulhon, E; Monceau-Baroux, R; Straub, O; 2015

Circular geodesics and thick tori around rotating boson stars

Classical And Quantum Gravity Volume: 32 Issue: 23

Miljkovic, K; Wieczorek, MA; Collins, GS; Solomon, SC; Smith, DE; Zuber, MT; 2015

Excavation of the lunar mantle by basin-forming impact events on the Moon

Earth And Planetary Science Letters Volume: 409 Issue: 243-251

Morlino, G; Gabici, S; 2015

Cosmic ray penetration in diffuse clouds

Monthly Notices Of The Royal Astronomical Society Volume: 451 Issue: 1 Issue: L100-L104

Nicolis, A; Penco, R; Piazza, F; Rattazzi, R; 2015

Zoology of condensed matter: framids, ordinary stuff, extra-ordinary stuff

Journal Of High Energy Physics, Issue: 6 Article Number: 155

Paizis, A; Nowak, MA; Rodriguez, J; Segreto, A; Chaty, S; Rau, A; Chenevez, J; Del Santo, M; Greiner, J; Schmidl, S; 2015

Investigating the nature of igr j17454-2919 using x-ray and near-infrared observations

Astrophysical Journal Volume: 808

Pecoits, E; Smith, ML; Catling, DC; Philippot, P; Kappler, A; Konhauser, KO; 2015

Atmospheric hydrogen peroxide and Eoarchean iron formations

Geobiology Volume: 13 Issue: 1 Issue: 1-14

Rahoui, F; Tomsick, JA; Coriat, M; Corbel, S; Furst, F; Gandhi, P; Kalemci, E; Migliari, S; Stern, D; Tzioumis, AK; 2015

Optical and near-infrared spectroscopy of the black hole swift j1753.5-0127

Astrophysical Journal Volume: 810 Issue: 2

Rodriguez, J; Bel, MC; Alfonso-Garzon, J; Siegert, T; Zhang, XL; Grinberg, V; Savchenko, V; Tomsick, JA; Chenevez, J; Clavel, M; Corbel, S; Diehl, R; Domingo, A; Gouiffes, C; Greiner, J; Krause, MGH; Laurent, P; Loh, A; Markoff, S; Mas-Hesse, JM; Miller-Jones, JCA; Russell, DM; Wilms, J; 2015

Correlated optical, X- ray, and gamma- ray flaring activity seen with INTEGRAL during the 2015 outburst of V404 Cygni

Astronomy & Astrophysics Volume: 581 Article Number: L9

Rodriguez, J; Grinberg, V; Laurent, P; Bel, MC; Pottschmidt, K; Pooley, G; Bodaghee, A; Wilms, J; Gouiffes, C; 2015

Spectral state dependence of the 0.4-2 mev polarized emission in cygnus x-1 seen with integral/ibis, and links with the ami radio data

Astrophysical Journal Volume: 807 Issue: 1

Swinbank, JD; Staley, TD; Molenaar, GJ; et al.

The LOFAR Transients Pipeline

astronomy and computing, Volume: 11 Issue: 25-48

Teitler, Y; Philippot, P; Gerard, M; Le Hir, G; Fluteau, F; Ader, M; 2015

Ubiquitous occurrence of basaltic-derived paleosols in the Late Archean Fortescue Group, Western Australia

Precambrian Research Volume: 267 Issue: 1-27

Thorey, C; Michaut, C; Wieczorek, M; 2015

Gravitational signatures of lunar floor-fractured craters

Earth And Planetary Science Letters Volume: 424 Issue: 269-279

Tomsick, JA; Rahoui, F; Kolehmainen, M et al.

THE ACCRETING BLACK HOLE SWIFT J1753.5-0127 FROM RADIO TO HARD X-RAY

Astrophysical Journal Volume: 808 Issue: 1

Abe, Y.; dos Anjos, J. C.; Barriere, J. C.; et al.

Background-independent measurement of $\theta(13)$ in Double Chooz

PHYSICS LETTERS B Volume: 735 Pages: 51-56 Published: JUL 30 2014

Abe, Y.; dos Anjos, J. C.; Barriere, J. C.; et al.

Precision muon reconstruction in Double Chooz

Nuclear Instruments & Methods In Physics Research Section A-Accelerators Spectrometers Detectors And Associated Equipment Volume: 764 Pages: 330-339 Published: NOV 11 2014

Abe, Y.; dos Anjos, J. C.; Barriere, J. C.; et al. Group Author(s): Double Chooz Collaboration

Improved measurements of the neutrino mixing angle $\theta(13)$ with the Double Chooz detector

JOURNAL OF HIGH ENERGY PHYSICS Issue: 10 Article Number: 086 Published: OCT 14 2014

Abe, Y.; dos Anjos, J. C.; Barriere, J. C.; et al. Group Author(s): Double Chooz Collaboration

Ortho-positronium observation in the Double Chooz experiment

Journal Of High Energy Physics Issue: 10 Article Number: 032 Published: OCT 6 2014

Agarwalla, S. K.; Agostino, L.; Aittola, M.; et al. Author(s): LAGUNA-LBNO Collaboration

The mass-hierarchy and CP-violation discovery reach of the LBNO long-baseline neutrino experiment Group

Journal Of High Energy Physics, Issue: 5 Article Number: 094 Published: MAY 21 2014

Baillie, Kevin; Charnoz, Sebastien

Time evolution of a viscous protoplanetary disk with a free geometry: toward a more self-consistent picture

Astrophysical Journal Volume: 786 Issue: 1 Article Number: 35 Published: MAY 1 2014

Bassa, C. G.; Patruno, A.; Hessels, J. W. T.; et al.

A state change in the low-mass X-ray binary XSS J12270-4859

Monthly Notices Of The Royal Astronomical Society Volume: 441 Issue: 2 Pages: 1825-1830 Published: JUN 2014

Bower, Geoffrey C.; Markoff, Sera; Brunthaler, Andreas; et al.

The intrinsic two-dimensional size of sagittarius a

Astrophysical Journal Volume: 790 Issue: 1 Article Number: 1 Published: JUL 20 2014

Carbone, Daniele; Gibert, Dominique; Marteau, Jacques; et al.

An experiment of muon radiography at Mt Etna (Italy)

GEOPHYSICAL JOURNAL INTERNATIONAL Volume: 196 Issue: 2 Pages: 633-643 Published: FEB 2014

Curran, P. A.; Coriat, M.; Miller-Jones, J. C. A.; et al.

The evolving polarized jet of black hole candidate Swift J1745-26

Monthly Notices Of The Royal Astronomical Society Volume: 437 Issue: 4 Pages: 3265-3273 Published: FEB 2014

du Pont, Sylvain Courrech; Narteau, Clement; Gao, Xin

Two modes for dune orientation

GEOLOGY Volume: 42 Issue: 9 Pages: 743-746 Published: SEP 2014

Dumas, G.; Vaupre, S.; Ceccarelli, C.; et al.

LOCALIZED SIO EMISSION TRIGGERED BY THE PASSAGE OF THE W51C SUPERNOVA REMNANT SHOCK

Astrophysical Journal LETTERS Volume: 786 Issue: 2 Article Number: L24 Published: MAY 10 2014

Francois, C.; Philippot, P.; Rey, P.; et al.

Burial and exhumation during Archean sagduction in the East Pilbara Granite-Greenstone Terrane

Earth And Planetary Science Letters Volume: 396 Pages: 235-251 Published: JUN 15 2014

Fujii, Toshiyuki; Moynier, Frederic; Blichert-Toft, Janne; et al.

Density functional theory estimation of isotope fractionation of Fe, Ni, Cu, and Zn among species relevant to geochemical and biological environments

Geochimica Et Cosmochimica Acta Volume: 140 Pages: 553-576 Published: SEP 1 2014

Gabici, S.; Aharonian, F. A., 2014

Hadronic gamma-rays from RX J1713.7-3946?

Monthly Notices Of The Royal Astronomical Society Volume: 445 Issue: 1 Pages: L70-L73 Published: NOV 21 2014

Gallo, E.; Miller-Jones, J. C. A.; Russell, D. M.; et al.

The radio/X-ray domain of black hole X-ray binaries at the lowest radio luminosities

Monthly Notices Of The Royal Astronomical Society Volume: 445 Issue: 1 Pages: 290-300 Published: NOV 21 2014

Goetz, D.; Laurent, P.; Antier, S.; et al.

GRB 140206A: the most distant polarized gamma-ray burst

Monthly Notices Of The Royal Astronomical Society Volume: 444 Issue: 3 Pages: 2776-2782 Published: NOV 1 2014

Hardisty, Dalton S.; Lu, Zunli; Planavsky, Noah J.; et al.

An iodine record of Paleoproterozoic surface ocean oxygenation

Geology Volume: 42 Issue: 7 Pages: 619-622 Published: JUL 2014

Hazra, Dhiraj Kumar; Shafieloo, Arman; Smoot, George F.; et al.

Inflation with Whip-Shaped Suppressed Scalar Power Spectra

PHYSICAL REVIEW LETTERS Volume: 113 Issue: 7 Article Number: 071301 Published: AUG 13 2014

Hazra, Dhiraj Kumar; Shafieloo, Arman; Smoot, George F.; et al.

Wiggly whipped inflation

Journal Of Cosmology And Astroparticle Physics Issue: 8 Article Number: 048 Published: AUG 2014

Javoy, Marc; Kaminski, Edouard, 2014

Earth's Uranium and Thorium content and geoneutrinos fluxes based on enstatite chondrites

Earth And Planetary Science Letters Volume: 407 Pages: 1-8 Published: DEC 1 2014

Kouchner, Antoine

Next-generation atmospheric neutrino experiments

PHYSICS OF THE DARK UNIVERSE Volume: 4 Pages: 60-74 Published: SEP 2014

Kumar, Pawan; Smoot, George F.

Some implications of inverse-Compton scattering of hot cocoon radiation by relativistic jets in gamma-ray bursts

Monthly Notices Of The Royal Astronomical Society Volume: 445 Issue: 1 Pages: 528-543 Published: NOV 21 2014

Laneuville, M.; Wieczorek, M. A.; Breuer, D.; et al.

A long-lived lunar dynamo powered by core crystallization

Earth And Planetary Science Letters Volume: 401 Pages: 251-260 Published: SEP 1 2014

Le Hir, G.; Teitler, Y.; Fluteau, F.; et al.

The faint young Sun problem revisited with a 3-D climate-carbon model - Part 1

CLIMATE OF THE PAST Volume: 10 Issue: 2 Pages: 697-713 Published: 2014

Lucas, Antoine; Rodriguez, Sebastien; Narteau, Clement; et al.

Growth mechanisms and dune orientation on Titan

Geophysical Research Letters Volume: 41 Issue: 17 Pages: 6093-6100 Published: SEP 16 2014

Marin-Carbonne, J.; Robert, F.; Chaussidon, M.

The silicon and oxygen isotope compositions of Precambrian cherts: A record of oceanic paleo-temperatures?

Precambrian Research, Volume: 247 Pages: 223-234 Published: JUL 2014

Marlowe, H.; Kaaret, P.; Lang, C.; et al.

Spectral state transitions of the Ultraluminous X-ray Source IC 342 X-1

Monthly Notices Of The Royal Astronomical Society Volume: 444 Issue: 1 Pages: 642-650 Published: OCT 11 2014

Marteau, Jacques; d'Ars, Jean de Bremond; Gibert, Dominique; et al.

Implementation of sub-nanosecond time-to-digital convertor in field-programmable gate array: applications to time-of-flight analysis in muon radiography

MEASUREMENT SCIENCE & TECHNOLOGY Volume: 25 Issue: 3 Article Number: 035101 Published: MAR 2014

Mishra, Ritesh Kumar; Chaussidon, Marc

Fossil records of high level of Fe-60 in chondrules from unequilibrated chondrites

Earth And Planetary Science Letters Volume: 398 Pages: 90-100 Published: JUL 15 2014

Morard, G.; Siebert, J.; Badro, J.

Partitioning of Si and platinum group elements between liquid and solid Fe-Si alloys

Geochimica Et Cosmochimica Acta Volume: 132 Pages: 94-100 Published: MAY 1 2014

Perasso, S.; Consolati, G.; Franco, D.; et al.

Measurement of ortho-positronium properties in liquid scintillators

JOURNAL OF INSTRUMENTATION Volume: 9 Article Number: C03028 Published: MAR 2014

Piazza, Federico; Steigerwald, Heinrich; Marinoni, Christian

Phenomenology of dark energy: exploring the space of theories with future redshift surveys

Journal Of Cosmology And Astroparticle Physics Issue: 5 Article Number: 043 Published: MAY 2014

Ping, Lu; Narteau, Clement; Dong, Zhibao; et al.

Emergence of oblique dunes in a landscape-scale experiment

Nature Geoscience Volume: 7 Issue: 2 Pages: 99-103 Published: FEB 2014

Price, M. C.; Ramkissoon, N. K.; McMahon, S.; et al.

Limits on methane release and generation via hypervelocity impact of Martian analogue materials

International journal of astrobiology Volume: 13 Issue: 2 Special Issue: SI Pages: 132-140 Published: APR 2014

Punsly, Brian; Rodriguez, Jerome; Trushkin, Sergei A.

Evidence of elevated x-ray absorption before and during major flare ejections in grs 1915+105

Astrophysical Journal Volume: 783 Issue: 2 Article Number: 133 Published: MAR 10 2014

Rozier, Olivier; Narteau, Clement

A real-space cellular automaton laboratory

Earth Surface Processes And Landforms; Volume: 39 Issue: 1 Pages: 98-109 Published: JAN 2014

Sforna, Marie Catherine; Philippot, Pascal; Somogyi, Andrea; et al.

Evidence for arsenic metabolism and cycling by microorganisms 2.7 billion years ago

Nature Geoscience Volume: 7 Issue: 11 Pages: 811-815 Published: NOV 2014

Soldi, S.; Beckmann, V.; Baumgartner, W. H.; et al.

Long-term variability of AGN at hard X-rays

Astronomy & Astrophysics Volume: 563 Article Number: A57 Published: MAR 2014

Tajeddine, R.; Rambaux, N.; Lainey, V.; et al.

Constraints on Mimas' interior from Cassini ISS libration measurements

SCIENCE Volume: 346 Issue: 6207 Pages: 322-324 Published: OCT 17 2014

Tartari, A.; Belier, B.; Calvo, M.; et al.

A mm-Wave Polarisation Analyser Using LEKIDs: Strategy and Preliminary Numerical Results

Journal Of Low Temperature Physics Volume: 176 Issue: 3-4 Pages: 524-529 Published: AUG 2014

Teitler, Yoram; Le Hir, Guillaume; Fluteau, Frederic; et al.

Investigating the Paleoproterozoic glaciations with 3-D climate modeling

Earth And Planetary Science Letters Volume: 395 Pages: 71-80 Published: JUN 1 2014

Valet, Jean-Pierre; Besse, Jean; Kumar, Anil; et al.

The intensity of the geomagnetic field from 2.4 Ga old Indian dykes

Geochemistry Geophysics Geosystems Volume: 15 Issue: 6 Pages: 2426-2437 Published: JUN 2014

van Zuilen, M. A.; Philippot, P.; Whitehouse, M. J.; et al.

Sulfur isotope mass-independent fractionation in impact deposits of the 3.2 billion-year-old Mapepe Formation, Barberton Greenstone Belt, South Africa

Geochimica Et Cosmochimica Acta Volume: 142 Pages: 429-441 Published: OCT 1 2014

Vargas, G.; Klinger, Y.; Rockwell, T. K.; et al., 2014

Probing large intraplate earthquakes at the west flank of the Andes

Geology Volume: 42 Issue: 12 Pages: 1083-1086 Published: DEC 2014

Vaupre, S.; Hily-Blant, P.; Ceccarelli, C.; et al.

Cosmic ray induced ionisation of a molecular cloud shocked by the W28 supernova remnant

Astronomy & Astrophysics Volume: 568 Article Number: A50 Published: AUG 2014

Vincent, F. H.; Paumard, T.; Perrin, G.; et al.

Distinguishing an ejected blob from alternative flare models at the Galactic Centre with GRAVITY

Monthly Notices Of The Royal Astronomical Society Volume: 441 Issue: 4 Pages: 3477-3487 Published: JUL 11 2014

Zhang, D.; Yang, X.; Rozier, O.; et al.

Mean sediment residence time in barchan dunes

Journal Of Geophysical Research-Earth Surface Volume: 119 Issue: 3 Pages: 451-463 Published: MAR 2014

Abe, Y.; Aberle, C.; dos Anjos, J. C.; et al.

First measurement of theta(13) from delayed neutron capture on hydrogen in the Double Chooz experiment

PHYSICS LETTERS B Volume: 723 Issue: 1-3 Pages: 66-70 Published: JUN 10 2013

Abe, Y.; Aberle, C.; dos Anjos, J. C.; et al. Group Author(s): Double Chooz Collaboration

Direct measurement of backgrounds using reactor-off data in Double Chooz

Physical ReviewD Volume: 87 Issue: 1 Article Number: 011102 Published: JAN 8 2013

Agostino, L.; Buizza-Avanzini, M.; Marafini, M.; et al.

Future large-scale water-Cherenkov detector

Physical ReviewSpecial Topics-Accelerators And Beams, Volume: 16 Issue: 6 Article Number: 061001 Published: JUN 19 2013

Bejar-Pizarro, Marta; Socquet, Anne; Armijo, Rolando; et al.

Andean structural control on interseismic coupling in the North Chile subduction zone

Nature Geoscience Volume: 6 Issue: 6 Pages: 462-467 Published: JUN 2013

Bellini, G.; Benziger, J.; Bick, D.; et al. Group Author(s): Borexino Collaboration

Cosmogenic Backgrounds in Borexino at 3800 m water-equivalent depth

Journal Of Cosmology And Astroparticle Physics Issue: 8 Article Number: 049 Published: AUG 2013

Bellini, G.; Benziger, J.; Bick, D.; et al. Group Author(s): Borexino Collaboration

Measurement of geo-neutrinos from 1353 days of Borexino

PHYSICS LETTERS B Volume: 722 Issue: 4-5 Pages: 295-300 Published: MAY 24 2013

Clavel, M.; Terrier, R.; Goldwurm, A.; et al.

Echoes of multiple outbursts of Sagittarius A(star) revealed by Chandra

Astronomy & Astrophysics Volume: 558 Article Number: A32 Published: OCT 2013

Consolati, G.; Franco, D.; Hans, S.; et al.

Characterization of positronium properties in doped liquid scintillators

PHYSICAL REVIEWC Volume: 88 Issue: 6 Article Number: 065502 Published: DEC 6 2013

Cristofari, P.; Gabici, S.; Casanova, S.; et al.

Acceleration of cosmic rays and gamma-ray emission from supernova remnants in the Galaxy

Monthly Notices Of The Royal Astronomical Society Volume: 434 Issue: 4 Pages: 2748-2760 Published: OCT 2013

Franco, D.; Jollet, C.; Kouchner, A.; et al.

Mass hierarchy discrimination with atmospheric neutrinos in large volume ice/water Cherenkov detectors

Journal Of High Energy Physics Issue: 4 Article Number: 008 Published: APR 2013

Jourde, K.; Gibert, D.; Marteau, J.; et al.

Experimental detection of upward going cosmic particles and consequences for correction of density radiography of volcanoes

GEOPHYSICAL RESEARCH LETTERS Volume: 40 Issue: 24 Pages: 6334-6339 Published: DEC 28 2013

Laneuville, M.; Wieczorek, M. A.; Breuer, D.; et al.

Asymmetric thermal evolution of the Moon

Journal of geophysical research-planets Volume: 118 Issue: 7 Pages: 1435-1452 Published: JUL 2013

Miljkovic, Katarina; Collins, Gareth S.; Mannick, Sahil; et al.

Morphology and population of binary asteroid impact craters

Earth And Planetary Science Letters Volume: 363 Pages: 121-132 Published: FEB 1 2013

Miljkovic, Katarina; Wieczorek, Mark A.; Collins, Gareth S.; et al.

Asymmetric Distribution of Lunar Impact Basins Caused by Variations in Target Properties

SCIENCE Volume: 342 Issue: 6159 Pages: 724-726 Published: NOV 8 2013

Wieczorek, Mark A.; Neumann, Gregory A.; Nimmo, Francis; et al.

The Crust of the Moon as Seen by GRAIL

SCIENCE Volume: 339 Issue: 6120 Pages: 671-675 Published: FEB 8 2013

2012 (6 PUBLICATIONS)

Abe, Y.; Aberle, C.; dos Anjos, J. C.; et al. Group Author(s): Double Chooz Collaboration

First test of Lorentz violation with a reactor-based antineutrino experiment

Physical Review D Volume: 86 Issue: 11 Article Number: 112009 Published: DEC 28 2012

Crida, A.; Charnoz, S.

Formation of Regular Satellites from Ancient Massive Rings in the Solar System

SCIENCE Volume: 338 Issue: 6111 Pages: 1196-1199 Published: NOV 30 2012

Kumar, Anil; Nagaraju, E.; Besse, Jean; et al.

New age, geochemical and paleomagnetic data on a 2.21 Ga dyke swarm from south India: Constraints on Paleoproterozoic reconstruction

PRECAMBRIAN RESEARCH Volume: 220 Pages: 123-138 Published: NOV 2012

Abe, Y.; Aberle, C.; dos Anjos, J. C.; et al. Group Author(s): Double Chooz Collaboration

Reactor ($\bar{\nu}$) disappearance in the Double Chooz experiment

Physical Review D Volume: 86 Issue: 5 Article Number: 052008 Published: SEP 18 2012

Philippot, Pascal; van Zuilen, Mark; Rollion-Bard, Claire

Variations in atmospheric sulphur chemistry on early Earth linked to volcanic activity

Nature Geoscience Volume: 5 Issue: 9 Pages: 668-U100 Published: SEP 2012

Zhang, Deguo; Narteau, Clement; Rozier, Olivier; et al.

Morphology and dynamics of star dunes from numerical modelling

Nature Geoscience Volume: 5 Issue: 7 Pages: 463-467 Published: JUL 2012