Curriculum Vitae

Brice-Olivier Demory

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University of Bern
Gesellschaftsstrasse 6
3012 Bern, Switzerland

Citizenship: Switzerland & France

CURRENT POSITION

ERC Professor of Astrophysics, University of Bern, Switzerland

Head of Exoplanets & Origins of Life
2 Postdocs, 4 PhD students, 3 engineers and 1 lab technician

RESEARCH INTERESTS

Detection & characterisation of exoplanets (with space- /ground-based facilities)

Astronomical instrumentation (PI of *SAINT-EX* and *MERMOZ* projects)

Non-invasive cancer detection and staging techniques (*BrainPol* project)

EDUCATION

PhD **Astrophysics –** University of Geneva, Switzerland, 06/2005 – 07/2009
Advisor: Prof. Didier Queloz

MSc **Advanced Studies in Astrophysics –** University of Geneva, 10/2008

MSc **Physics –** Swiss Federal Institute of Technology (EPFL)
Lausanne, Switzerland, 04/2005

BSc **Physics –** EPFL & Technische Universität München,
Munich, Germany, 06/2003
Diplomarbeit at ESO Garching (advisor: Dr. Marc Sarazin).

PREVIOUS POSITIONS

Professor of Astrophysics SNF **– University of Bern,** 08/2016 – 07/2022

Senior Research Associate **– University of Cambridge (UK),** 02 – 07/2016

Research Associate **– University of Cambridge**, 03/2014 – 01/2016

Postdoctoral Associate **– MIT (USA)**, 02/2011 – 02/2014

Fellow of the Swiss National Science Foundation **– MIT**, 02/2010 – 01/2011

Postdoctoral Researcher **– Geneva Observatory**, 07/2009 – 12/2009

Graduate Research Assistant **– Geneva Observatory**, 06/2005 – 06/2009

AWARDS & HONOURS

ERC Consolidator Grant, 2022

NASA Group Achievement Award for the discovery of TRAPPIST-1, 2018

AIAA Small Satellite Mission of the year (NASA JPL ASTERIA), 2018

Royal Society University Research Fellowship, 2016

SNSF Professorship, 2016 (University of Bern)

STFC Ernest Rutherford Fellowship, 2016

Plantamour-Prévost Prize, 2010 (best thesis award)

SNF Young Researcher Fellowship, 2010 (1-yr postdoctoral funding at MIT)

RESEARCH PROJECTS & LEADERSHIP

Current

Principal Investigator – ERC Consolidator *SenseLife* (budget 2.2 MEUR)
Principal Investigator – *SAINT-EX* observatory (budget 1.2 MEUR)
Principal Investigator – *MERMOZ* space mission (feasibility phase)
Principal Investigator – Space-based polarimetric instrumentation laboratory
Co-Principal Investigator – *BrainPol* in-vivo realtime tumour detection
Co-Principal Investigator – *SPECULOOS* exoplanet survey
Science Team Member & Program Manager – ESA ***CHEOPS*** space mission
Science Team Member – NASA/JPL ***ASTERIA*** space mission
Science Team Member – NASA ***JWST****/ERS* exoplanet working group.
Member – ESA ***CHEOPS*** atmospheric characterisation working group.
Member – NASA ***TESS*** follow-up working groups (SG1 & SG5)
Co-I (x11) **–** NASA ***James Webb*** *Space Telescope* Exoplanet programmes
PI (x2) & Co-I (x5) **–** NASA ***Hubble*** *Space Telescope* Exoplanet programmes
PI (x3) & Co-I (x8) **–** NASA ***Spitzer*** *Space Telescope* Exoplanet programmes
PI (x8) & Co-I (x2) **–** NASA ***Kepler*** *Mission* Exoplanet programmes
PI (x6) & Co-I (x9) **– *VLT, Magellan*** and ***Palomar*** Exoplanet programmes
PI (x4) & Co-I (x3) **– *VLTI*** and ***CHARA*** Very Low-Mass Stars programmes

Completed

Project Leader – SNF NCCR *PlanetS (phase II)*
Collaborator – NASA *Kepler* mission
Contributor to ESO OWL (former E-ELT) Concept Design Report
Member – *Kepler* TCERT, Giant-Planet & False-Positive Working Groups

SELECTED FIRST-AUTHOR ACHIEVEMENTS

***First thermal map** of a super-Earth exoplanet (Mar 2016, *Nature*)
***First demonstration of variability** in a super-Earth atmosphere (May 2015)
***First map of clouds in an exoplanet** atmosphere (2013)
***First detection of thermal emission in a super-Earth** exoplanet (2012)
*Detection of a transit of the super-Earth 55 Cancri e with *Spitzer* (2011)
Observational evidence for a lack of cool, inflated giant planets (2011)
Discovery and characterization of the first transiting hot Neptune (2007)
**Press releases were issued for these results, along with large coverage interviews (Time, BBC, National Geographic, CNN, CBS, ABC News, etc.)*

OTHER ACHIEVEMENTS

***Discovery of the TRAPPIST-1 system**.
Gillon, Triaud, **Demory** et al. (Feb 2017, Nature).
Role: performed the dynamical simulations for the system and mass determinations from the TTV and an independent analysis of the Spitzer data.

***A resonant chain in the TRAPPIST-1 system**.
Luger, **Sestovic** (PhD student in my group) et al. (June 2017, Nature Ast.).
Role: led the collaboration, wrote the K2 proposal and performed an independent transit search and analysis of the K2 dataset.

***Detection of transits of the first hot-Neptune exoplanet (GJ436b)**
Gillon, Pont, **Demory** et al. (April 2007, A&A).
Role: overhauled the control system of the telescope that enabled this result.

Teaching

Advanced statistics for physicists (mandatory course, 4 ECTS), Bern, from 2019, developed a new BSc/MSc-level advanced course on Bayesian statistics

Exoplanets and Origins of Life (new specialist course, 4 ECTS), from 2023

Part III Lecture Supervision, Cambridge, 2015 – 2016

MIT Teaching Certificate Program, 2013

Guest Lecturer – MIT, 2012 – 2013
Discussed Bayesian methods with graduate students as part of the seminar course Quantifying Uncertainty (12.S990)

New course development/Instructor – Positional Astronomy, 2005-2008
Designed an entire syllabus on positional astronomy and navigation. I gave these series of lectures during 3 years in Switzerland.

Teaching Assistant – University of Geneva, Switzerland, 2006 – 2009
Served as a teaching assistant for an undergraduate introduction to astrophysics. Duties included covering lectures, holding office hours, organising problem sets sessions, examinations and grading.

Instructor and Examiner – College-level, 2003 – 2006
Served as an instructor and examiner for Physics I & II (classical mechanics, electricity & magnetism) classes. Duties included preparing the classes, lecturing and grading.

Student Research Advising & Mentoring

Bern, 2016 – present

Graduate (PhD): **Marko Sestovic** (*Bayesian studies of exoplanet populations*), **Erik Meier Valdes** (*high-precision photometric studies with CHEOPS*), **Kathryn Jones** (*Characterisation of ultra-hot Jupiters with CHEOPS*), **Paulo Sampaio** (Classification of tumours with spectro-polarimetry, co-advisor), **Lynn Roth** (Time of flight polarimeter for tissue diagnosis, co-advisor), **Lisa Brandenburg** (microbiology), **Francis Zong Lang** (exoplanets), **Jonathan Grone** (polarimetric modelling).
Graduate (Postdoc): **Bastien Courcol** (*SAINT-EX experiment*), **Simon Grimm** (*GPU-based transit timing analyses of multiple exoplanet systems*), **Jonas Kühn** (*MERMOZ feasibility study*), **Lucas Patty** (MERMOZ), **Robert Wells** (SAINT-EX), **Nicole Schanche** (Machine learning techniques for high-precision photometry), **Mathilda Fatton** (microbiology)
Undergraduate: **Dennis Alp** (*Refraction in exoplanet atmospheres*), **Emily Rose** (*observing strategy for ground-based surveys*), **Kirsten Housen** (*SAINT-EX data reduction*), **Erik Meier Valdes** (*Earth IR remote sensing*), **Caroline Haslebacher** (*Earth climate modelling*), **Nicole Kämpfer** (BrainPol)

Cambridge, 2014 – 2016

Graduate: (PhD): **Maximilian Günther** (*exoplanet yield with NGTS survey*)
Undergraduate: **Jessica Spake** (*Methane in the atmosphere of GJ3470b*), **E. Meurgues** (*Exoplanet phase-curves*), **E. Foxell** (*K2 photometry*).

MIT, 2010 – 2014

Graduate: **Julien de Wit, Renyu Hu, Stephen Messenger, Bjoern Benneke.**
Undergraduate: **J.Balfe, K.Singh, K.Berry, A.Piso, M.Agusti, L.Knight.**

University of Geneva, 2006 – 2009

Audrey Reverdin, Xavier Dumusque, Steven Mathey, Niklas Willrich.

PhD Thesis Committee Member – A. Lanotte (2015), D. Gamborino (2019), K. Barkaoui (2020), M. Sestovic (2020), E. Ducrot (2021), L. Garcia (2023).

MSc. Thesis Committee Member – M. Polfliet (U. Gent, 2012)

INSTITUTIONAL RESPONSIBILITIES

Convener – ISSI workshop (geophysics of exoplanets), April 2024

Chair – CHEOPS Science Team meeting, Nov 2023

Treasurer – Swiss Society for Astronomy and Astrophysics (since 2022)

SOC Member – TRAPPIST-1 conference, Belgium, June 2019

Chair – NCCR working group on JWST/TRAPPIST-1, Bern, 2016 – present

Founder – Bernese Exoplanet Retreat series, 35 participants, 2018

Founder – CSH Seminar series, Bern, 2016 – 2020

Founder – Cambridge inter-departmental exoplanet meetings, 2014 – 2016

Chair – LOC UK Community Exoplanet Meeting, 101 delegates, 2014

Mentor – Office of the Dean for Graduate Education, MIT, 2011.

COMMISSIONS OF TRUST

Reviewer – European Research Council (Consolidator & Starting Grants)

Member – **Evaluation Board**, Postdoc.Mobility, Swiss National Science Foundation (**SNSF**)

Member – Editorial Board, *Nature* Scientific Reports

Member – Review Board, Leibniz Institute for Astrophysics Potsdam

Panelist – Royal Society Dorothy Hodgkin Fellowships

Reviewer – Royal Society Innovation Awards

Reviewer – Royal Astronomical Society Fellowships

Panelist – **Canada National Science Foundation** (FRQNT)

Panelist & Reviewer – German Research Foundation (**DFG**)

Reviewer – Netherlands Organisation for Scientific Research (**NWO**)

Reviewer – UK Science & Technology Facilities Council (**STFC**)

Reviewer – Belgian National Science Foundation (**FRS-FNRS**)

Member – NASA **Hubble Space Telescope** Time Allocation Committee

Panelist – NASA **Hubble Fellowships**

Panelist – NASA **Spitzer** Space Telescope Review

Reviewer – NASA **Spitzer** Space Telescope **Director's Time**

Reviewer – NASA Exoplanets Research Program (**XRP**)

Panelist – NASA Earth and Space Science Fellowships (**NESSF**)

Reviewer – NASA *Kepler* Science Council

Member – Hans Sigrist Prize Committee, University of Bern

Reviewer – Optical IR Coordination Network for Astronomy (**OPTICON**)

Reviewer – Canadian Telescope Time Allocation Committee

Reviewer – City of Paris promotion for Research

Referee – Nature, The Astrophysical Journal Letters (ApJL), Astronomy and Astrophysics (A&A), The Astrophysical Journal (ApJ), Publications of the Astronomical Society of the Pacific (PASP), The Astronomical Journal (AJ), Monthly Notices of the Royal Astronomical Society (MNRAS).

EXTERNAL COMPETITIVE FUNDING AS PRINCIPAL INVESTIGATOR
(5'846'948 EUR)

Program: ***ERC Consolidator grant***
Period: 2022 – 2027
Funding: **EUR 1'994'625** (CHF 2'200'000)

Program: ***SPIRIT (Swiss Programme for International Research)***
Period: 2023 – 2027
Funding: **EUR 519'180** (CHF 497'776)

Program: ***NCCR PlanetS, Technology Platform***, SNSF
Period: 2020 – 2021
Funding: **EUR 132'000** (CHF 142'000)

Program: ***SNSF Professorship,*** Swiss National Science Foundation (SNSF)
Period: 2020 – 2022
Funding: **EUR 717'128** (CHF 788'841)

Program: ***NCCR PlanetS « Frontiers in habitability »***, SNSF
Period: 2019 – 2020
Funding: **EUR 231'015** (CHF 263'445)

Program: ***NCCR PlanetS « New Initiatives »***, SNSF
Period: 2017 – 2020
Funding: **EUR 264'000** (CHF 290'000)

Program: ***SNSF Professorship***, SNSF
Period: 2016 – 2020
Funding: **EUR 1'450'000** (CHF 1'593'000)

Agency: **University of Bern** (Switzerland)
Period: 2016 – 2020
Funding: **EUR 227'000** (CHF 250'000)

Agency: **University of Liège** (Belgium)
Period: 2019 – 2025
Funding: **EUR 100'000** (CHF 110'000)

Agency: **University of Cambridge** (UK)
Period: 2019 – 2020
Funding: **EUR 46'000** (CHF 50'000)

Agency: **University of Geneva** (Switzerland)
Period: 2016 – 2020
Funding: **EUR 46'000** (CHF 50'000)

Program: *Masses and additional companions in the TRAPPIST-1 system*
Agency: **NASA Astrophysics Division**
Period: 2016 – 2018
Funding: **$25,000**

Program: *Search for a Transit of the Earth-mass Planet Alpha Cen Bb*
Agency: **NASA Astrophysics Division**
Period: 2013 – 2015
Funding: **$75,000**

Program: *The First Orbital Phase Curve of a Rocky Exoplanet*
Agency: **NASA Astrophysics Division**
Period: 2013 – 2017
Funding: **$20,000**

SELECTED INVITED TALKS & SEMINARS

– Life in the Universe, Harvard, Boston, 2023.
– The Alpha Centauri System, towards new worlds, Nice, 2023
– Centre for life in the Universe, Geneva, 2023
– Bern Data Science Day, keynote, Bern, 2023
– Lorentz Center, Leiden NL, 2022
– Swiss Young Physicists Forum, keynote, 2021
– Architecture of planetary systems, invited review, 2021
– Albert Einstein Centre Colloquium, Bern, 2021
– SSAA/SGAA AG, St-Luc, 2020
– Astrophysics colloquium, Leiden, 2020, postponed
– Architecture of planetary systems, Bern, 2020, postponed
– Hans Sigrist Foundation Symposium, Dec. 2019
– Climate Modelling Summer School, Cambridge, UK, Sep. 2019
– University of Exeter, UK, Mar. 2019
– ISSI-Europlanet forum, Feb 2019
– Seminar, EPFL Space Center, Dec 2018
– Understanding the Diversity of Planetary Atmospheres, ISSI, Nov 2018
– DTU Space, Copenhagen, Jun. 2018
– Life on Earth and beyond, Mar. 2018 (*)
– AGU Fall Meeting, Washington DC, Dec. 2018 (*)
– WORLD.MINDS, Zürich, Dec. 2017
– Exoplanets and Planet Formation, Shanghai, China, Dec. 2017 (*)
– American Geophysical Union Fall Meeting, San Francisco, USA, 2017 (*)
– GFD Seminar, ETHZ, Nov. 2016
– ExoFrontiers 2016, Cambridge (UK), Sep. 2016.
– CHEOPS Science workshop, Geneva (CH), invited review, Jun. 2016
– University of Oxford, invited colloquium, May 2016
– IAU GA 2015, Exostats, Honolulu (HI, USA), Aug. 2015 (*)
– Planetary Systems: a synergistic view, Vietnam, Jul. 2015 (*)
– Atmospheres with PLATO, Keynote talk, DLR Berlin, Mar. 2015
– Keele University, UK, Dec. 2014
– University of Exeter, UK, Nov. 2014
– University of Birmingham, UK, Oct. 2014
– Department of Applied Mathematics, Cambridge, UK, May 2014
– Institute of Astronomy, Cambridge, UK, Sep. 2013
– University of Florida, Gainesville, USA, Nov. 2012
– Massachusetts Institute of Technology, Dept. of Physics, USA, 2011
– American Geophysical Union Fall Meeting, San Francisco, USA, 2010
– University of Montreal, Quebec, Canada, Sep. 2010

(*) Declined because of parental leave.

PROFESSIONAL MEMBERSHIPS	International Astronomical Union – since 2012, Active Member of Division C (Education, Outreach and Heritage), Division F (Planetary Systems and Bioastronomy) and Division B (Facilities, Technologies and Data Science) American Astronomical Society – 2010-2014 American Geophysical Union – 2010-2014 Swiss Society for Astrophysics and Astronomy – since 2005
SELECTED PUBLIC ENGAGEMENT ACTIVITIES	**Public talks** – since 1996 (2 to 5 per year) **TV, radio interviews** – BBC (2016, 2018), NHK (2016), RTS (Swiss, 2006, 2007, 2009, 2018, 2021, 2022, 2023), France 2 (1998). **Co-organiser** – "Cosmic" exhibition, Cambridge, UK, 2015 **Demonstrator** – "Physics at work", Cambridge, UK, 2014 **Collaborator** of Etoile-des-Enfants.ch, website dedicated to astronomy for kids **Vice-President** of the *Swiss Astronomical Society* (Switzerland), 2008 – 2010
OTHER INTERESTS	**Experimental aircraft pilot** – EASA FCL PPL since 1997 (720h TT, 584h PIC) Ratings: Mountain / T / P / VP / RU / NIT / TW.

BRICE-OLIVIER DEMORY — REFEREED PUBLICATIONS

***h*-index = 52. Citation count = 10180. Refereed publications = 162. Submitted = 7.**
First author papers = 16. Citation count (first-author papers only) = 1409.
(source: NASA ADS)

***h*-index = 57. Citation count = 13408.**
(source: Google scholar)

Selected first-author publications (refereed, in reverse chronological order)

1. ***A map of the large day-night temperature gradient of a super-Earth exoplanet***
Demory, B.-O. [and 13 coauthors], 2016, *Nature*, 532, 207 — 179 citations

This study reports the first map of a super-Earth exoplanet.
***Nature* Editor's summary:** 55 Cancri e is a nearby exoplanet with a diameter less than around twice that of Earth, but a mass that is about eight times Earth's mass. 55 Cancri e is among the best candidates for the study of the nature of a class of exoplanets that is unknown to our Solar System: previous observations of super-Earths have yielded only featureless spectra. Here Brice-Olivier Demory et al. report a longitudinal thermal brightness map of 55 Cancri e in transit across its host star. The map reveals strong day–night temperature contrast, suggesting inefficient heat redistribution consistent with the planet either lacking an atmosphere, or having an optically thick atmosphere with heat recirculation confined to the planetary dayside.

2. ***Inference of Inhomogeneous Clouds in an Exoplanet Atmosphere***
Demory, B.-O. [and 13 coauthors], 2013, *ApJ Letters*, 776L, 25D — 193 citations

This study reports the first cloud map in an exoplanet. I got interested in Kepler-7b, the exoplanet that is the subject of this paper, when searching for large albedo exoplanets in 2011. Upon Kepler-7b discovery, I initiated an effort bringing theorists and observers together to build a picture of this exoplanet, using datasets obtained at both visible and infrared wavelengths that resulted in the publication of this work. Our observations not only report the detection of clouds but also provide hints on how they form and dissipate in Kepler-7b's atmosphere. This discovery has prompted several teams (based in Canada and in the USA) to seek other similar planets and provide strong constraints on climate patterns in tidally-locked planets.

3. ***Detection of a transit of the super-Earth 55 Cancri e with warm Spitzer***
Demory, B.-O., [and 14 coauthors], 2011, *A&A Letters*, 533, 114 — 147 citations

This result emerges from a search for transiting planets with the *Spitzer* Space Telescope that I co-led from 2009 to 2013. 55 Cancri e orbits a star that is 40 light-years away and visible to the naked eye. The brightness of its host star makes this super-Earth exoplanet a prime target for detailed characterisation. This paper contributed to the increased scrutiny 55 Cnc e is now subject to.

4. ***Lack of Inflated Radii for Kepler Planet Candidates Receiving Modest Irradiation***
Demory, B.-O. and Seager, S., 2011, *ApJ Supp*, 197, 12 — 183 citations

This paper investigates the correlation between the sizes of giant exoplanets and the level of irradiation they receive. This is an important result as it allowed to discuss the plausibility of different physical processes (such as double-layer convection, ohmic heating and tidal effects) in the light of data obtained for more than a hundred of exoplanets observed during the first 6 months of *Kepler* operations. Several theoretical studies use the results of this paper to test their models for radius inflation.

5. ***The High Albedo of the Hot Jupiter Kepler-7 b***
Demory, B.-O. [and 13 coauthors], 2011, *ApJ, 735L, 12D* — 102 citations

This study presents the relatively high albedo (0.3) of the hot-Jupiter Kepler-7b in stark contrast to the low reflectivity expected for the hot-Jupiter planets. We interpret the Kepler-7 b albedo as resulting from an excess reflection over what can be explained solely by Rayleigh scattering, along with a nominal thermal component. This excess reflection might indicate the presence of a cloud or haze layer in the atmosphere, which was investigated further in our 2013 paper (item 3 above).

6. ***Mass-radius relation of low and very low-mass stars revisited with the VLTI***
Demory, B.-O. [and 14 coauthors], 2009, *A&A, 505, 205D* — 153 citations

This study presents direct radii measurements of very-low mass stars (down to M5.5) obtained using very long baseline optical interferometry. We use these new data, together with literature measurements, to examine the luminosity-radius and mass-radius relations for K and M dwarfs. We find that the radii of magnetically quiet late-K to M dwarfs match the predictions of stellar evolution models very well, providing direct confirmation that magnetic activity explains the discrepancy that was recently found for magnetically active eclipsing systems.

7. ***Characterisation of the hot Neptune GJ 436 b with Spitzer and ground-based observations***
Demory, B.-O. [and 13 coauthors], 2007, *A&A, 475, 1125D* — 99 citations

This paper presents the first measurement of thermal emission from GJ436b obtained with the Spitzer Space Telescope. These data enabled us to constrain the planetary emergent spectrum and the orbital eccentricity of this Neptune-mass exoplanet.

Full publication list (bold: members of my research group)

2023

TESS and CHEOPS discover two warm sub-Neptunes transiting the bright K-dwarf HD 15906
Tuson, A., Queloz, D., Osborn, H. P., Wilson, T. G., Hooton, M. J., Beck, M., Lendl, M., Olofsson, G., Fortier, A., Bonfanti, A., Brandeker, A., Buchhave, L. A., Collier Cameron, A., Ciardi, D. R., Collins, K. A., Gandolfi, D., Garai, Z., Giacalone, S., Gomes da Silva, J., Howell, S. B., Patel, J. A., Persson, C. M., Serrano, L. M., Sousa, S. G., Ulmer-Moll, S., Vanderburg, A., Ziegler, C., Alibert, Y., Alonso, R., Anglada, G., Bárczy, T., Barrado Navascues, D., Barros, S. C. C., Baumjohann, W., Beck, T., Benz, W., Billot, N., Bonfils, X., Borsato, L., Broeg, C., Cabrera, J., Charnoz, S., Conti, D. M., Csizmadia, S., Cubillos, P. E., Davies, M. B., Deleuil, M., Delrez, L., Demangeon, O. D. S., **Demory, B.-O**., Dragomir, D., Dressing, C. D., Ehrenreich, D., Erikson, A., Essack, Z., Farinato, J., Fossati, L., Fridlund, M., Furlan, E., Gill, H., Gillon, M., Gnilka, C. L., Gonzales, E., Güdel, M., Günther, M. N., Hoyer, S., Isaak, K. G., Jenkins, J. M., Kiss, L. L., Laskar, J., Latham, D. W., Law, N., Lecavelier des Etangs, A., Curto, G. L., Lovis, C., Luque, R., Magrin, D., Mann, A. W., Maxted, P. F. L., Mayor, M., McDermott, S., Mecina, M., Mordasini, C., Mortier, A., Nascimbeni, V., Ottensamer, R., Pagano, I., Pallé, E., Peter, G., Piotto, G., Pollacco, D., Pritchard, T., Ragazzoni, R., Rando, N., Ratti, F., Rauer, H., Ribas, I., Ricker, G. R., Rieder, M., Santos, N. C., Savel, A. B., Scandariato, G., Schwarz, R. P., Seager, S., Ségransan, D., Shporer, A., Simon, A. E., Smith, A. M. S., Steller, M., Stockdale, C., Szabó, G. M., Thomas,

N., Torres, G., Tronsgaard, R., Udry, S., Ulmer, B., Van Grootel, V., Vanderspek, R., Venturini, J., Walton, N. A., Winn, J. N., & Wohler, B.
Monthly Notices of the Royal Astronomical Society, 523, 3090 (2023).

Two warm Neptunes transiting HIP 9618 revealed by TESS and Cheops
Osborn, H. P., Nowak, G., Hébrard, G., Masseron, T., Lillo-Box, J., Pallé, E., Bekkelien, A., Florén, H.-G., Guterman, P., Simon, A. E., Adibekyan, V., Bieryla, A., Borsato, L., Brandeker, A., Ciardi, D. R., Collier Cameron, A., Collins, K. A., Egger, J. A., Gandolfi, D., Hooton, M. J., Latham, D. W., Lendl, M., Matthews, E. C., Tuson, A., Ulmer-Moll, S., Vanderburg, A., Wilson, T. G., Ziegler, C., Alibert, Y., Alonso, R., Anglada, G., Arnold, L., Asquier, J., Barrado y Navascues, D., Baumjohann, W., Beck, T., Belinski, A. A., Benz, W., Biondi, F., Boisse, I., Bonfils, X., Broeg, C., Buchhave, L. A., Bárczy, T., Barros, S. C. C., Cabrera, J., Cardona Guillen, C., Carleo, I., Castro-González, A., Charnoz, S., Christiansen, J., Cortes-Zuleta, P., Csizmadia, S., Dalal, S., Davies, M. B., Deleuil, M., Delfosse, X., Delrez, L., **Demory, B.-O**., Dunlavey, A. B., Ehrenreich, D., Erikson, A., Fernandes, R. B., Fortier, A., Forveille, T., Fossati, L., Fridlund, M., Gillon, M., Goeke, R. F., Goliguzova, M. V., Gonzales, E. J., Günther, M. N., Güdel, M., Heidari, N., Henze, C. E., Howell, S., Hoyer, S., Frey, J. I., Isaak, K. G., Jenkins, J. M., Kiefer, F., Kiss, L., Korth, J., Maxted, P. F. L., Laskar, J., Lecavelier des Etangs, A., Lovis, C., Lund, M. B., Luque, R., Magrin, D., Almenara, J. M., Martioli, E., Mecina, M., Medina, J. V., Moldovan, D., Morales-Calderón, M., Morello, G., Moutou, C., Murgas, F., Jensen, E. L. N., Nascimbeni, V., Olofsson, G., Ottensamer, R., Pagano, I., Peter, G., Piotto, G., Pollacco, D., Queloz, D., Ragazzoni, R., Rando, N., Rauer, H., Ribas, I., Ricker, G., Demangeon, O. D. S., Smith, A. M. S., Santos, N., Scandariato, G., Seager, S., Sousa, S. G., Steller, M., Szabó, G. M., Ségransan, D., Thomas, N., Udry, S., Ulmer, B., Van Grootel, V., Vanderspek, R., Walton, N., & Winn, J. N.
Monthly Notices of the Royal Astronomical Society, 523, 3069 (2023).

Refined parameters of the HD22946 planetary system and the true orbital period of planet d
Garai, Z., Osborn, H. P., Gandolfi, D., Brandeker, A., Sousa, S. G., Lendl, M., Bekkelien, A., Broeg, C., Cameron, A. C., Egger, J. A., Hooton, M. J., Alibert, Y., Delrez, L., Fossati, L., Salmon, S., Wilson, T. G., Bonfanti, A., Tuson, A., Ulmer-Moll, S., Serrano, L. M., Borsato, L., Alonso, R., Anglada, G., Asquier, J., Barrado y Navascues, D., Barros, S. C. C., Bárczy, T., Baumjohann, W., Beck, M., Beck, T., Benz, W., Billot, N., Biondi, F., Bonfils, X., Buder, M., Cabrera, J., Cessa, V., Charnoz, S., Csizmadia, S., Cubillos, P. E., Davies, M. B., Deleuil, M., Demangeon, O. D. S., **Demory, B.-O.,** Ehrenreich, D., Erikson, A., Van Eylen, V., Fortier, A., Fridlund, M., Gillon, M., Van Grootel, V., Güdel, M., Günther, M. N., Hoyer, S., Isaak, K. G., Kiss, L. L., Kristiansen, M. H., Laskar, J., des Etangs, A. L., Lovis, C., Luntzer, A., Magrin, D., Maxted, P. F. L., Mordasini, C., Nascimbeni, V., Olofsson, G., Ottensamer, R., Pagano, I., Pallé, E., Peter, G., Piotto, G., Pollacco, D., Queloz, D., Ragazzoni, R., Rando, N., Rauer, H., Ribas, I., Santos, N. C., Scandariato, G., Ségransan, D., Simon, A. E., Smith, A. M. S., Steller, M., Szabó, G. M., Thomas, N., Udry, S., Venturini, J., & Walton, N.
Astronomy and Astrophysics, 674, A44 (2023).

TOI-5678b: A 48-day transiting Neptune-mass planet characterized with CHEOPS and HARPS
Ulmer-Moll, S., Osborn, H. P., Tuson, A., Egger, J. A., Lendl, M., Maxted, P., Bekkelien, A., Simon, A. E., Olofsson, G., Adibekyan, V., Alibert, Y., Bonfanti, A., Bouchy, F., Brandeker, A., Fridlund, M., Gandolfi, D., Mordasini, C., Persson, C. M., Salmon, S., Serrano, L. M., Sousa, S. G., Wilson, T. G., Rieder, M., Hasiba, J., Asquier, J., Sicilia, D., Walter, I., Alonso, R., Anglada, G., Barrado y Navascues, D., Barros, S. C. C., Baumjohann, W., Beck, M., Beck, T., Benz, W., Billot, N., Bonfils, X., Borsato, L., Broeg, C., Bárczy, T., Cabrera, J., Charnoz, S., Cointepas, M., Cameron, A. C., Csizmadia, S., Cubillos, P. E., Davies, M. B., Deleuil, M., Deline, A., Delrez, L., Demangeon, O. D. S., **Demory, B.-O.**, Dumusque, X., Ehrenreich, D., Eisner, N. L., Erikson, A., Fortier, A., Fossati, L., Gillon, M., Grieves, N., Güdel, M., Hagelberg, J., Helled, R., Hoyer, S., Isaak, K. G., Kiss, L. L., Laskar, J., des Etangs, A. L., Lovis, C., Magrin, D., Nascimbeni, V., Otegi, J., Ottensammer, R., Pagano, I., Pallé, E., Peter, G., Piotto, G., Pollacco, D., Psaridi, A., Queloz, D., Ragazzoni, R., Rando, N., Rauer, H.,

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Astronomy and Astrophysics, 674, A43 (2023).

A new dynamical modeling of the WASP-47 system with CHEOPS observations
Nascimbeni, V., Borsato, L., Zingales, T., Piotto, G., Pagano, I., Beck, M., Broeg, C., Ehrenreich, D., Hoyer, S., Majidi, F. Z., Granata, V., Sousa, S. G., Wilson, T. G., Van Grootel, V., Bonfanti, A., Salmon, S., Mustill, A. J., Delrez, L., Alibert, Y., Alonso, R., Anglada, G., Bárczy, T., Barrado, D., Barros, S. C. C., Baumjohann, W., Beck, T., Benz, W., Bergomi, M., Billot, N., Bonfils, X., Brandeker, A., Cabrera, J., Charnoz, S., Collier Cameron, A., Csizmadia, S., Cubillos, P. E., Davies, M. B., Deleuil, M., Deline, A., Demangeon, O. D. S., **Demory, B.-O**., Erikson, A., Fortier, A., Fossati, L., Fridlund, M., Gandolfi, D., Gillon, M., Güdel, M., Isaak, K. G., Kiss, L. L., Laskar, J., Lecavelier des Etangs, A., Lendl, M., Lovis, C., Luque, R., Magrin, D., Maxted, P. F. L., Mordasini, C., Olofsson, G., Ottensamer, R., Pallé, E., Peter, G., Piazza, D., Pollacco, D., Queloz, D., Ragazzoni, R., Rando, N., Ratti, F., Rauer, H., Ribas, I., Santos, N. C., Scandariato, G., Ségransan, D., Simon, A. E., Smith, A. M. S., Steinberger, M., Steller, M., Szabó, G. M., Thomas, N., Udry, S., Venturini, J., Walton, N. A., & Wolter, D.
Astronomy and Astrophysics, 673, A42 (2023).

TOI-836: A super-Earth and mini-Neptune transiting a nearby K-dwarf
Hawthorn, F., Bayliss, D., Wilson, T. G., Bonfanti, A., Adibekyan, V., Alibert, Y., Sousa, S. G., Collins, K. A., Bryant, E. M., Osborn, A., Armstrong, D. J., Abe, L., Acton, J. S., Addison, B. C., Agabi, K., Alonso, R., Alves, D. R., Anglada-Escudé, G., Bárczy, T., Barclay, T., Barrado, D., Barros, S. C. C., Baumjohann, W., Bendjoya, P., Benz, W., Bieryla, A., Bonfils, X., Bouchy, F., Brandeker, A., Broeg, C., Brown, D. J. A., Burleigh, M. R., Buttu, M., Cabrera, J., Caldwell, D. A., Casewell, S. L., Charbonneau, D., Charnoz, S., Cloutier, R., Cameron, A. C., Collins, K. I., Conti, D. M., Crouzet, N., Czismadia, S., Davies, M. B., Deleuil, M., Delgado-Mena, E., Delrez, L., Demangeon, O. D. S., **Demory, B.-O.**, Dransfield, G., Dumusque, X., Egger, J. A., Ehrenreich, D., Eigmüller, P., Erickson, A., Essack, Z., Fortier, A., Fossati, L., Fridlund, M., Günther, M. N., Güdel, M., Gandolfi, D., Gillard, H., Gillon, M., Gnilka, C., Goad, M. R., Goeke, R. F., Guillot, T., Hadjigeorghiou, A., Hellier, C., Henderson, B. A., Heng, K., Hooton, M. J., Horne, K., Howell, S. B., Hoyer, S., Irwin, J. M., Jenkins, J. S., Jenkins, J. M., Jensen, E. L. N., Kane, S. R., Kendall, A., Kielkopf, J. F., Kiss, L. L., Lacedelli, G., Laskar, J., Latham, D. W., Etangs, A. L. des ., Leleu, A., Lendl, M., Lillo-Box, J., Lovis, C., Mékarnia, D., Massey, B., Masters, T., Maxted, P. F. L., Nascimbeni, V., Nielsen, L. D., O'Brien, S. M., Olofsson, G., Osborn, H. P., Pagano, I., Pallé, E., Persson, C. M., Piotto, G., Plavchan, P., Pollacco, D., Queloz, D., Ragazzoni, R., Rauer, H., Ribas, I., Ricker, G., Ségransan, D., Salmon, S., Santerne, A., Santos, N. C., Scandariato, G., Schmider, F.-X., Schwarz, R. P., Seager, S., Shporer, A., Simon, A. E., Smith, A. M. S., Srdoc, G., Steller, M., Suarez, O., Szabó, G. M., Teske, J., Thomas, N., Tilbrook, R. H., Triaud, A. H. M. J., Udry, S., Van Grootel, V., Walton, N., Wang, S. X., Wheatley, P. J., Winn, J. N., Wittenmyer, R. A., & Zhang, H.
Monthly Notices of the Royal Astronomical Society, 520, 3649 (2023).

A super-Earth and a mini-Neptune near the 2:1 MMR straddling the radius valley around the nearby mid-M dwarf TOI-2096
Pozuelos, F. J., Timmermans, M., Rackham, B. V., Garcia, L. J., Burgasser, A. J., Kane, S. R., Günther, M. N., Stassun, K. G., Van Grootel, V., Dévora-Pajares, M., Luque, R., Edwards, B., Niraula, P., **Schanche, N., Wells, R. D.**, Ducrot, E., Howell, S., Sebastian, D., Barkaoui, K., Waalkes, W., Cadieux, C., Doyon, R., Boyle, R. P., Dietrich, J., Burdanov, A., Delrez, L., **Demory, B.-O**., de Wit, J., Dransfield, G., Gillon, M., Gómez Maqueo Chew, Y., Hooton, M. J., Jehin, E., Murray, C. A., Pedersen, P. P., Queloz, D., Thompson, S. J., Triaud, A. H. M. J., Zúñiga-Fernández, S., Collins, K. A., Fausnaugh, M. M., Hedges, C., Hesse, K. M., Jenkins, J. M., Kunimoto, M., Latham, D. W., Shporer, A., Ting, E. B., Torres, G., Amado, P., Rodón, J. R., Rodríguez-López, C., Suárez, J. C., Alonso, R., Benkhaldoun, Z., Berta-Thompson, Z. K., Chinchilla, P., Ghachoui, M., Gómez-Muñoz, M. A., Rebolo, R., Sabin, L.**, Schroffenegger**, **U.**, Furlan, E., Gnilka, C., Lester, K., Scott, N., Aganze, C., Gerasimov, R.,

Hsu, C., Theissen, C., Apai, D., Chen, W. P., Gabor, P., Henning, T., & Mancini, L.
Astronomy and Astrophysics, 672, A70 (2023).

The geometric albedo of the hot Jupiter HD 189733b measured with CHEOPS
Krenn, A. F., Lendl, M., Patel, J. A., Carone, L., Deleuil, M., Sulis, S., Collier Cameron, A., Deline, A., Guterman, P., Queloz, D., Fossati, L., Brandeker, A., Heng, K., Akinsanmi, B., Adibekyan, V., Bonfanti, A., Demangeon, O. D. S., Kitzmann, D., Salmon, S., Sousa, S. G., Wilson, T. G., Alibert, Y., Alonso, R., Anglada, G., Bárczy, T., Barrado Navascues, D., Barros, S. C. C., Baumjohann, W., Beck, M., Beck, T., Benz, W., Billot, N., Blecha, L., Bonfils, X., Borsato, L., Broeg, C., Cabrera, J., Charnoz, S., Corral van Damme, C., Csizmadia, S., Cubillos, P. E., Davies, M. B., Delrez, L., **Demory, B.-O.**, Ehrenreich, D., Erikson, A., Farinato, J., Fortier, A., Fridlund, M., Gandolfi, D., Gillon, M., Güdel, M., Hoyer, S., Isaak, K. G., Kiss, L. L., Kopp, E., Laskar, J., Lecavelier des Etangs, A., Lovis, C., Magrin, D., Maxted, P. F. L., Mordasini, C., Nascimbeni, V., Olofsson, G., Ottensamer, R., Pagano, I., Pallé, E., Peter, G., Piotto, G., Pollacco, D., Ragazzoni, R., Rando, N., Rauer, H., Ribas, I., Santos, N. C., Scandariato, G., Ségransan, D., Simon, A. E., Smith, A. M. S., Steller, M., Szabó, G. M., Thomas, N., Udry, S., Ulmer, B., Van Grootel, V., Venturini, J., & Walton, N. A.
Astronomy and Astrophysics, 672, A24 (2023).

The EBLM project - IX. Five fully convective M-dwarfs, precisely measured with CHEOPS and TESS light curves
Sebastian, D., Swayne, M. I., Maxted, P. F. L., Triaud, A. H. M. J., Sousa, S. G., Olofsson, G., Beck, M., Billot, N., Hoyer, S., Gill, S., Heidari, N., Martin, D. V., Persson, C. M., Standing, M. R., Alibert, Y., Alonso, R., Anglada, G., Asquier, J., Bárczy, T., Barrado, D., Barros, S. C. C., Battley, M. P., Baumjohann, W., Beck, T., Benz, W., Bergomi, M., Boisse, I., Bonfils, X., Brandeker, A., Broeg, C., Cabrera, J., Charnoz, S., Collier Cameron, A., Csizmadia, S., Davies, M. B., Deleuil, M., Delrez, L., Demangeon, O. D. S., **Demory, B.-O**., Dransfield, G., Ehrenreich, D., Erikson, A., Fortier, A., Fossati, L., Fridlund, M., Gandolfi, D., Gillon, M., Güdel, M., Hasiba, J., Hébrard, G., Heng, K., Isaak, K. G., Kiss, L. L., Kopp, E., Kunovac, V., Laskar, J., Lecavelier des Etangs, A., Lendl, M., Lovis, C., Magrin, D., McCormac, J., Miller, N. J., Nascimbeni, V., Ottensamer, R., Pagano, I., Pallé, E., Pepe, F. A., Peter, G., Piotto, G., Pollacco, D., Queloz, D., Ragazzoni, R., Rando, N., Rauer, H., Ribas, I., Lalitha, S., Santerne, A., Santos, N. C., Scandariato, G., Ségransan, D., Simon, A. E., Smith, A. M. S., Steller, M., Szabó, G. M., Thomas, N., Udry, S., Van Grootel, V., & Walton, N. A.
Monthly Notices of the Royal Astronomical Society, 519, 3546 (2023).

TOI-1055 b: Neptunian planet characterised with HARPS, TESS, and CHEOPS
Bonfanti, A., Gandolfi, D., Egger, J. A., Fossati, L., Cabrera, J., Krenn, A., Alibert, Y., Benz, W., Billot, N., Florén, H.-G., Lendl, M., Adibekyan, V., Salmon, S., Santos, N. C., Sousa, S. G., Wilson, T. G., Barragán, O., Collier Cameron, A., Delrez, L., Esposito, M., Goffo, E., Osborne, H., Osborn, H. P., Serrano, L. M., Van Eylen, V., Alarcon, J., Alonso, R., Anglada, G., Bárczy, T., Barrado Navascues, D., Barros, S. C. C., Baumjohann, W., Beck, M., Beck, T., Bedell, M., Bonfils, X., Borsato, L., Brandeker, A., Broeg, C., Charnoz, S., Corral Van Damme, C., Csizmadia, S., Cubillos, P. E., Davies, M. B., Deleuil, M., Demangeon, O. D. S., **Demory, B.-O**., Ehrenreich, D., Erikson, A., Fortier, A., Fridlund, M., Gillon, M., Güdel, M., Hoyer, S., Isaak, K. G., Kerschbaum, F., Kiss, L. L., Laskar, J., Lecavelier des Etangs, A., Lorenzo-Oliveira, D., Lovis, C., Magrin, D., Marafatto, L., Maxted, P. F. L., Meléndez, J., Mordasini, C., Nascimbeni, V., Olofsson, G., Ottensamer, R., Pagano, I., Pallé, E., Peter, G., Piazza, D., Piotto, G., Pollacco, D., Queloz, D., Ragazzoni, R., Rando, N., Rauer, H., Ribas, I., Scandariato, G., Ségransan, D., Simon, A. E., Smith, A. M. S., Steller, M., Szabó, G. M., Thomas, N., Udry, S., Ulmer, B., Van Grootel, V., Venturini, J., & Walton, N. A.
Astronomy and Astrophysics, 671, L8 (2023).

A full transit of v2 Lupi d and the search for an exomoon in its Hill sphere with CHEOPS
Ehrenreich, D., Delrez, L., Akinsanmi, B., Wilson, T. G., Bonfanti, A., Beck, M., Benz, W., Hoyer, S., Queloz, D., Alibert, Y., Charnoz, S., Collier Cameron, A., Deline, A., Hooton, M., Lendl, M., Olofsson, G., Sousa, S. G., Adibekyan, V., Alonso, R., Anglada, G., Barrado, D.,

Barros, S. C. C., Baumjohann, W., Beck, T., Bekkelien, A., Bergomi, M., Billot, N., Bonfils, X., Brandeker, A., Broeg, C., Bárczy, T., Berta-Thompson, Z. K., Cabrera, J., Corral Van Damme, C., Csizmadia, S., Davies, M. B., Deleuil, M., Demangeon, O., Demory, B.-O., Doty, J. P., Erikson, A., Fausnaugh, M. M., Florén, H.-G., Fortier, A., Fossati, L., Fridlund, M., Futyan, D., Gandolfi, D., Gillon, M., Guterman, P., Güdel, M., Heng, K., Isaak, K. G., Jäckel, A., Jenkins, J. M., Kiss, L. L., Laskar, J., Latham, D. W., Lecavelier des Etangs, A., Levine, A. M., Lovis, C., Magrin, D., Maxted, P. F. L., Morgan, E. H., Nascimbeni, V., Osborn, H. P., Ottensamer, R., Pagano, I., Pallé, E., Peter, G., Piotto, G., Pollacco, D., Ragazzoni, R., Rando, N., Rauer, H., Ribas, I., Ricker, G. R., Salmon, S., Santos, N. C., Scandariato, G., Simon, A. E., Smith, A. M. S., Steinberger, M., Steller, M., Szabó, G. M., Ségransan, D., Shporer, A., Thomas, N., Tschentscher, M., Udry, S., Vanderspek, R., Van Grootel, V., & Walton, N. A.
Astronomy and Astrophysics, 671, A154 (2023).

Glancing through the debris disk: Photometric analysis of DE Boo with CHEOPS
Boldog, Á., Szabó, G. M., Kriskovics, L., Brandeker, A., Kiefer, F., Bekkelien, A., Guterman, P., Olofsson, G., Simon, A. E., Gandolfi, D., Serrano, L. M., Wilson, T. G., Sousa, S. G., Lecavelier des Etangs, A., Alibert, Y., Alonso, R., Anglada, G., Bandy, T., Bárczy, T., Barrado, D., Barros, S. C. C., Baumjohann, W., Beck, M., Beck, T., Benz, W., Billot, N., Bonfils, X., Broeg, C., Buder, M., Cabrera, J., Charnoz, S., Collier Cameron, A., Corral van Damme, C., Csizmadia, S., Davies, M. B., Deline, A., Deleuil, M., Delrez, L., Demangeon, O. D. S., **Demory, B.-O**., Ehrenreich, D., Erikson, A., Farinato, J., Fortier, A., Fossati, L., Fridlund, M., Gillon, M., Güdel, M., Heng, K., Hoyer, S., Isaak, K. G., Kiss, L. L., Laskar, J., Lendl, M., Lovis, C., Magrin, D., Maxted, P. F. L., Mecina, M., Nascimbeni, V., Ottensamer, R., Pagano, I., Pallé, E., Peter, G., Piotto, G., Pollacco, D., Queloz, D., Ragazzoni, R., Rando, N., Rauer, H., Ribas, I., Santos, N. C., Scandariato, G., Ségransan, D., Smith, A. M. S., Steller, M., Thomas, N., Udry, S., Van Grootel, V., & Walton, N. A.
Astronomy and Astrophysics, 671, A127 (2023).

Hint of an exocomet transit in the CHEOPS light curve of HD 172555
Kiefer, F., Van Grootel, V., Lecavelier des Etangs, A., Szabó, G. M., Brandeker, A., Broeg, C., Collier Cameron, A., Deline, A., Olofsson, G., Wilson, T. G., Sousa, S. G., Gandolfi, D., Hébrard, G., Alibert, Y., Alonso, R., Anglada, G., Bárczy, T., Barrado, D., Barros, S. C. C., Baumjohann, W., Beck, M., Beck, T., Benz, W., Billot, N., Bonfils, X., Cabrera, J., Charnoz, S., Csizmadia, S., Davies, M. B., Deleuil, M., Delrez, L., Demangeon, O. D. S., **Demory, B.-O.**, Ehrenreich, D., Erikson, A., Fortier, A., Fossati, L., Fridlund, M., Gillon, M., Güdel, M., Heng, K., Hoyer, S., Isaak, K. G., Kiss, L. L., Laskar, J., Lendl, M., Lovis, C., Magrin, D., Maxted, P. F. L., Munari, M., Nascimbeni, V., Ottensamer, R., Pagano, I., Pallé, E., Peter, G., Piazza, D., Piotto, G., Pollacco, D., Queloz, D., Ragazzoni, R., Rando, N., Ratti, F., Rauer, H., Reimers, C., Ribas, I., Santos, N. C., Scandariato, G., Ségransan, D., Simon, A. E., Smith, A. M. S., Steller, M., Thomas, N., Udry, S., Walter, I., & Walton, N. A.
Astronomy and Astrophysics, 671, A25 (2023).

Discovery of TOI-1260d and the characterization of the multiplanet system
Lam, K. W. F., Cabrera, J., Hooton, M. J., Alibert, Y., Bonfanti, A., Beck, M., Deline, A., Florén, H.-G., Simon, A. E., Fossati, L., Persson, C. M., Fridlund, M., Salmon, S., Hoyer, S., Osborn, H. P., Wilson, T. G., Georgieva, I. Y., Nowak, G., Luque, R., Egger, J. A., Adibekyan, V., Alonso, R., Escudé, G. A., Bárczy, T., Barrado, D., Barros, S. C. C., Baumjohann, W., Beck, T., Bekkelien, A., Benz, W., Billot, N., Bonfils, X., Brandeker, A., Broeg, C., Charnoz, S., Cameron, A. C., Csizmadia, S., Davies, M. B., Deleuil, M., Delrez, L., Demangeon, O. D. S., **Demory, B.-O.**, Ehrenreich, D., Erikson, A., Fortier, A., Futyan, D., Gandolfi, D., Gillon, M., Guedel, M., Guterman, P., Laskar, J., Latham, D. W., Lecavelier des Etangs, A., Lendl, M., Lovis, C., Heng, K., Isaak, K. G., Kiss, L., Magrin, D., Maxted, P. F. L., Nascimbeni, V., Olofsson, G., Ottensamer, R., Pagano, I., Pallé, E., Peter, G., Piotto, G., Pollacco, D., Queloz, D., Ribas, I., Ragazzoni, R., Rando, N., Rauer, H., Santos, N. C., Scandariato, G., Seager, S., Ségransan, D., Serrano, L. M., Smith, A. M. S., Sousa, S. G., Steller, M., Szabó, G. M., Thomas, N., Udry, S., Van Grootel, V., Walton, N. A., & Winn, J. N.
Monthly Notices of the Royal Astronomical Society, 519, 1437 (2023).

Connecting photometric and spectroscopic granulation signals with CHEOPS and ESPRESSO
Sulis, S., Lendl, M., Cegla, H. M., Rodríguez Díaz, L. F., Bigot, L., Van Grootel, V., Bekkelien, A., Cameron, A. C., Maxted, P. F. L., Simon, A. E., Lovis, C., Scandariato, G., Bruno, G., Nardiello, D., Bonfanti, A., Fridlund, M., Persson, C. M., Salmon, S., Sousa, S. G., Wilson, T. G., Krenn, A., Hoyer, S., Santerne, A., Ehrenreich, D., Alibert, Y., Alonso, R., Anglada, G., Bárczy, T., Barrado y Navascues, D., Barros, S. C. C., Baumjohann, W., Beck, M., Beck, T., Benz, W., Billot, N., Bonfils, X., Borsato, L., Brandeker, A., Broeg, C., Cabrera, J., Charnoz, S., Corral van Damme, C., Csizmadia, S., Davies, M. B., Deleuil, M., Deline, A., Delrez, L., Demangeon, O. D. S., **Demory, B.-O**., Erikson, A., Fortier, A., Fossati, L., Gandolfi, D., Gillon, M., Güdel, M., Heng, K., Isaak, K. G., Kiss, L. L., Laskar, J., Lecavelier des Etangs, A., Magrin, D., Munari, M., Nascimbeni, V., Olofsson, G., Ottensamer, R., Pagano, I., Pallé, E., Peter, G., Piotto, G., Pollacco, D., Queloz, D., Ragazzoni, R., Rando, N., Rauer, H., Ribas, I., Rieder, M., Santos, N. C., Ségransan, D., Smith, A. M. S., Steinberger, M., Steller, M., Szabó, G. M., Thomas, N., Udry, S., Walton, N. A., & Wolter, D.
Astronomy and Astrophysics, 670, A24 (2023).

Precise near-infrared photometry, accounting for precipitable water vapour at SPECULOOS Southern Observatory
Pedersen, P. P., Murray, C. A., Queloz, D., Gillon, M., **Demory, B. O.**, Triaud, A. H. M. J., de Wit, J., Delrez, L., Dransfield, G., Ducrot, E., Garcia, L. J., Gómez Maqueo Chew, Y., Günther, M. N., Jehin, E., McCormac, J., Niraula, P., Pozuelos, F. J., Rackham, B. V., **Schanche, N**., Sebastian, D., Thompson, S. J., Timmermans, M., & **Wells, R**.
Monthly Notices of the Royal Astronomical Society, 518, 2661 (2023).

Examining the orbital decay targets KELT-9 b, KELT-16 b, and WASP-4b, and the transit-timing variations of HD 97658 b
Harre, J.-V., Smith, A. M. S., Barros, S. C. C., Boué, G., Csizmadia, S., Ehrenreich, D., Florén, H.-G., Fortier, A., Maxted, P. F. L., Hooton, M. J., Akinsanmi, B., Serrano, L. M., Rosário, N. M., **Demory, B.-O**., Jones, K., Laskar, J., Adibekyan, V., Alibert, Y., Alonso, R., Anderson, D. R., Anglada, G., Asquier, J., Bárczy, T., Barrado y Navascues, D., Baumjohann, W., Beck, M., Beck, T., Benz, W., Billot, N., Biondi, F., Bonfanti, A., Bonfils, X., Brandeker, A., Broeg, C., Cabrera, J., Cessa, V., Charnoz, S., Collier Cameron, A., Davies, M. B., Deleuil, M., Delrez, L., Demangeon, O. D. S., Erikson, A., Fossati, L., Fridlund, M., Gandolfi, D., Gillon, M., Güdel, M., Hellier, C., Heng, K., Hoyer, S., Isaak, K. G., Kiss, L. L., Lecavelier des Etangs, A., Lendl, M., Lovis, C., Luntzer, A., Magrin, D., Nascimbeni, V., Olofsson, G., Ottensamer, R., Pagano, I., Pallé, E., Persson, C. M., Peter, G., Piotto, G., Pollacco, D., Queloz, D., Ragazzoni, R., Rando, N., Rauer, H., Ribas, I., Ricker, G. R., Salmon, S., Santos, N. C., Scandariato, G., Seager, S., Ségransan, D., Simon, A. E., Sousa, S. G., Steller, M., Szabó, G. M., Thomas, N., Udry, S., Ulmer, B., Van Grootel, V., Walton, N. A., Wilson, T. G., Winn, J. N., & Wohler, B.
Astronomy and Astrophysics, 669, A124 (2023).

55 Cancri e's occultation captured with CHEOPS
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Astronomy and Astrophysics, 663, A95 (2022).

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Physically-motivated basis functions for temperature maps of exoplanets
Morris, B. M., Heng, K., **Jones, K**., Piaulet, C., **Demory, B.-O**., Kitzmann, D., & Jens Hoeijmakers, H.
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Discovery and mass measurement of the hot, transiting, Earth-sized planet, GJ 3929 b
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Spi-OPS: Spitzer and CHEOPS confirm the near-polar orbit of MASCARA-1 b and reveal a hint of dayside reflection
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Detection of the tidal deformation of WASP-103b at 3 σ with CHEOPS
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TOI-2257 b: A highly eccentric long-period sub-Neptune transiting a nearby M dwarf
Schanche, N., Pozuelos, F. J., Günther, M. N., **Wells, R. D.**, Burgasser, A. J., Chinchilla, P., Delrez, L., Ducrot, E., Garcia, L. J., Gómez Maqueo Chew, Y., Jofré, E., Rackham, B. V., Sebastian, D., Stassun, K. G., Stern, D., Timmermans, M., Barkaoui, K., Belinski, A., Benkhaldoun, Z., Benz, W., Bieryla, A., Bouchy, F., Burdanov, A., Charbonneau, D., Christiansen, J. L., Collins, K. A., **Demory, B.-O.**, Dévora-Pajares, M., de Wit, J., Dragomir, D., Dransfield, G., Furlan, E., Ghachoui, M., Gillon, M., Gnilka, C., Gómez-Muñoz, M. A., Guerrero, N., Harris, M., Heng, K., Henze, C. E., Hesse, K., Howell, S. B., Jehin, E., Jenkins, J., Jensen, E. L. N., Kunimoto, M., Latham, D. W., Lester, K., McLeod, K. K., Mireles, I., Murray, C. A., Niraula, P., Pedersen, P. P., Queloz, D., Quintana, E. V., Ricker, G., Rudat, A., Sabin, L., Safonov, B., Schroffenegger, U., Scott, N., Seager, S., Strakhov, I., Triaud, A. H. M. J., Vanderspek, R., Vezie, M., & Winn, J. ,
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Analysis of Early Science observations with the CHaracterising ExOPlanets Satellite (CHEOPS) using PYCHEOPS
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Detecting life outside our solar system with a large high-contrast-imaging mission

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A large sub-Neptune transiting the thick-disk M4 V TOI-2406
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2020

The hot dayside and asymmetric transit of WASP-189 b seen by CHEOPS
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Morris, B. M., Hoeijmakers, H. J., Kitzmann, D., & **Demory, B.-O.**
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2019

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Proc. SPIE 11132-10

Multi-season optical modulation phased with the orbit of the super-Earth 55 Cancri e
Sulis, S.; Dragomir, D.; Lendl, M.; Bourrier, V.; **Demory, B. O**.; Fossati, L.; Cubillos, P. E.; Guenther, D. B.; Kane, S. R.; Kuschnig, R.; Matthews, J. M.; Moffat, A. F. J.; Rowe, J. F.; Sasselov, D.; Weiss, W. W.; Winn, J. N.
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Ground-based follow-up observations of TRAPPIST-1 transits in the near-infrared
Burdanov, A. Y., Lederer, S. M., Gillon, M., Delrez, L., Ducrot, E., de Wit, J., Jehin, E., Triaud, A. H. M. J., Lidman, C., Spitler, L., **Demory, B.-O**., Queloz, D., & Van Grootel, V.
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2018

The 0.8─4.5 μm Broadband Transmission Spectra of TRAPPIST-1 Planets
Ducrot, E.; **Sestovic, M.**; Morris, B. M.; Gillon, M.; Triaud, A. H. M. J.; De Wit, J.; Thimmarayappa, D.; Agol, E.; Almleaky, Y.; Burdanov, A.; Burgasser, A. J.; Delrez, L.; **Demory, B. -O.**; Jehin, E.; Leconte, J.; McCormac, J.; Murray, C.; Queloz, D.; Selsis, F.; Thompson, S.; Van Grootel, V.
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Bourrier, V.; Dumusque, X.; Dorn, C.; Henry, G. W.; Astudillo-Defru, N.; Rey, J.; Benneke,

B.; Hébrard, G.; Lovis, C.; **Demory, B. O**.; Moutou, C.; Ehrenreich, D.,
A&A, 619, A1.

Non-detection of Contamination by Stellar Activity in the Spitzer Transit Light Curves of TRAPPIST-1
Morris, Brett M.; Agol, Eric; Hebb, Leslie; Hawley, Suzanne L.; Gillon, Michaël; Ducrot, Elsa; Delrez, Laetitia; Ingalls, James; **Demory, Brice-Olivier**,
ApJ, 863, L32.

The Peculiar Atmospheric Chemistry of KELT-9b
Kitzmann, Daniel; Heng, Kevin; Rimmer, Paul B.; Hoeijmakers, H. Jens; Tsai, Shang-Min; Malik, Matej; Lendl, Monika; Deitrick, Russell; **Demory, Brice-Olivier**
ApJ, 863, 183.

The nature of the TRAPPIST-1 exoplanets
Grimm, Simon; Demory, Brice-Olivier; Gillon, Michaël; Dorn, Caroline; Agol, Eric; Burdanov, Artem; Delrez, Laetitia; **Sestovic, Marko**; Triaud, Amaury; Turbet, Martin; Bolmont, Émeline; Caldas, Anthony; de Wit, Julien; Jehin, Emmanuël; Leconte, Jérémy; Raymond, Sean; Van Grootel, Valérie; Burgasser, Adam; Carey, Sean; Fabrycky, Daniel Heng, Kevin; Hernandez, David; Ingalls, James; Lederer, Susan; Selsis, F.; Queloz, Didier
A&A, 613, A68.

Investigating hot-Jupiter inflated radii with hierarchical Bayesian modelling
Sestovic, Marko; **Demory, Brice-Olivier**; Queloz, Didier
A&A, 616, A76.

Refraction in exoplanet atmospheres: Photometric signatures, implications for transmission spectroscopy, and search in Kepler data
Alp, Dennis; **Demory, Brice-Olivier**
A&A, 609A, 90A.

Atmospheric reconnaissance of the habitable-zone Earth-sized planets orbiting TRAPPIST-1
de Wit, Julien; Wakeford, Hannah R.; Lewis, Nikole K.; Delrez, Laetitia; Gillon, Michaël; Selsis, Frank; Leconte, Jérémy; **Demory, Brice-Olivier**; Bolmont, Emeline; Bourrier, Vincent; Burgasser, Adam J.; **Grimm, Simon**; Jehin, Emmanuël; Lederer, Susan M.; Owen, James E.; Stamenković, Vlada; Triaud, Amaury H. M. J.
Nat. Astr., 2, 214

Revisiting the Phase Curves of WASP-43b: Confronting Re-analyzed Spitzer Data with Cloudy Atmospheres
Mendonça, João M.; Malik, Matej; **Demory, Brice-Olivier**; Heng, Kevin
AJ, 155, 150M.

Early 2017 observations of TRAPPIST-1 with Spitzer
Delrez, L.; Gillon, M.; Triaud, A.; **Demory, B.-O.**; de Wit, J.; Ingalls, J. G.; Agol, E.; Bolmont, E.; Burdanov, A.; Burgasser, A. J.; Carey, S. J.; Jehin, E.; Leconte, J.; Lederer, S.; Queloz, D.; Selsis, F.; Van Grootel, V.
MNRAS, 475, 3577D

High-precision multiwavelength eclipse photometry of the ultra-hot gas giant exoplanet WASP-103 b
Delrez, L.; Madhusudhan, N.; Lendl, M.; Gillon, M.; Anderson, D. R.; Neveu-VanMalle, M.; Bouchy, F.; Burdanov, A.; Collier-Cameron, A.; **Demory, B.-O**.; Hellier, C.; Jehin, E.; Magain, P.; Maxted, P. F. L.; Queloz, D.; Smalley, B.; Triaud, A. H. M. J.
MNRAS, 474, 2334D

Stellar parameters for TRAPPIST-1
Van Grootel, Valerie; Fernandes, Catarina S.; Gillon, Michaël; Jehin, Emmanuel; Manfroid,

Jean; Scuflaire, Richard; Burgasser, Adam J.; Burdanov, Artem; Delrez, Laetitia; **Demory, Brice-Olivier**; de Wit, Julien; Queloz, Didier; Triaud, Amaury H. M. J.
ApJ, 853, 30V.

2017

Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1
Michaël Gillon, Amaury H. M. J. Triaud, **Brice-Olivier Demory**, Emmanuël Jehin, Eric Agol, Katherine M. Deck, Susan M. Lederer, Julien de Wit, Artem Burdanov, James G. Ingalls, Emeline Bolmont, Jeremy Leconte, Sean N. Raymond, Franck Selsis, Martin Turbet, Khalid Barkaoui, Adam Burgasser, Matthew R. Burleigh, Sean J. Carey, Aleksander Chaushev, Chris M. Copperwheat, Laetitia Delrez, Catarina S. Fernandes, Daniel L. Holdsworth, Enrico J. Kotze, Valérie Van Grootel, Yaseen Almleaky, Zouhair Benkhaldoun, Pierre Magain & Didier Queloz
Nature 542, 456
***-> Role**: performed the dynamical simulations for the system and mass determinations from the TTV and an independent analysis of the Spitzer data.*

A seven-planet resonant chain in TRAPPIST-1
Luger, Rodrigo; **Sestovic, Marko**; Kruse, Ethan; **Grimm, Simon L.**; **Demory, Brice-Olivier**; Agol, Eric; Bolmont, Emeline; Fabrycky, Daniel; Fernandes, Catarina S.; Van Grootel, Valérie; Burgasser, Adam; Gillon, Michaël; Ingalls, James G.; Jehin, Emmanuël; Raymond, Sean N.; Selsis, Franck; Triaud, Amaury H. M. J.; Barclay, Thomas; Barentsen, Geert; Howell, Steve B. Delrez, Laetitia; de Wit, Julien; Foreman-Mackey, Daniel; Holdsworth, Daniel L.; Leconte, Jérémy; Lederer, Susan; Turbet, Martin; Almleaky, Yaseen; Benkhaldoun, Zouhair; Magain, Pierre; Morris, Brett M.; Heng, Kevin; Queloz, Didier
Nature Astronomy, 1, 129
***-> Role:** led the collaboration, wrote the observation proposal and performed an independent transit search and Markov Chain Monte Carlo analysis of the K2 dataset.*

Two massive rocky planets transiting a K-dwarf 6.5 parsecs away
Gillon, Michaël; **Demory, Brice-Olivier**; Van Grootel, Valérie; Motalebi, Fatemeh; Lovis, Christophe; Cameron, Andrew Collier; Charbonneau, David; Latham, David; Molinari, Emilio; Pepe, Francesco A.; Ségransan, Damien; Sasselov, Dimitar; Udry, Stéphane; Mayor, Michel; Micela, Giuseppina; Piotto, Giampaolo; Sozzetti, Alessandro
Nature Astronomy, 1, 56

A new yield simulator for transiting planets and false positives: application to the Next Generation Transit Survey
Günther, Maximilian N.; Queloz, Didier; **Demory, Brice-Olivier**; Bouchy, Francois
MNRAS, 465, 3379G

The Spitzer search for the transits of HARPS low-mass planets - II. Null results for 19 planets
Gillon, M.; **Demory, B.-O.**; Lovis, C.; Deming, D.; Ehrenreich, D.; Lo Curto, G.; Mayor, M.; Pepe, F.; Queloz, D.; Seager, S.; Segransan, D.; Udry, S.
A&A, 601, A117

HELIOS-RETRIEVAL: An Open-source, Nested Sampling Atmospheric Retrieval Code; Application to the HR 8799 Exoplanets and Inferred Constraints for Planet Formation
Lavie, Baptiste; Mendonça, João M.; Mordasini, Christoph; Malik, Matej; Bonnefoy, Mickaël; **Demory, Brice-Olivier**; Oreshenko, Maria; Grimm, Simon L.; Ehrenreich, David; Heng, Kevin
AJ, 154, 91L

Temporal Evolution of the High-energy Irradiation and Water Content of TRAPPIST-1 Exoplanets

Bourrier, V.; de Wit, J.; Bolmont, E.; Stamenković, V.; Wheatley, P. J.; Burgasser, A. J.; Delrez, L.; **Demory, B.-O.**; Ehrenreich, D.; Gillon, M.; Jehin, E.; Leconte, J.; Lederer, S. M.; Lewis, N.; Triaud, A. H. M. J.; Van Grootel, V.
AJ, 154, 121B

Retrieval Analysis of the Emission Spectrum of WASP-12b: Sensitivity of Outcomes to Prior Assumptions and Implications for Formation History
Oreshenko, Maria; Lavie, Baptiste; Grimm, Simon L.; Tsai, Shang-Min; Malik, Matej; **Demory, Brice-Olivier**; Mordasini, Christoph; Alibert, Yann; Benz, Willy; Quanz, Sascha P.; Trotta, Roberto; Heng, Kevin
ApJ,847L, 3O

2016

The red dwarf pair GJ65AB: inflated, spinning twins of Proxima
Kervella, P.; Mérand, A.; Ledoux, C.; **Demory, B.-O**.; Le Bouquin, J.-B.
A&A, 593A, 127K

The eccentricity distribution of short-period planet candidates detected by Kepler in occultation
Megan Shabram, **Brice-Olivier Demory**, Jessi Cisewski, Eric B. Ford, Leslie Rogers
ApJ, 820, 2, 93

Variability in the super-Earth 55 Cnc e
Demory, Brice-Olivier; Gillon, Michael; Madhusudhan, Nikku; Queloz, Didier
MNRAS, 455, 2018

**** HELIOS-Retrieval: An Open-source, Nested Sampling Atmospheric Retrieval Code, Application to the HR 8799 Exoplanets and Inferred Constraints for Planet Formation***
Lavie, Baptiste; Mendonça, João M.; Mordasini, Christoph; Malik, Matej; Bonnefoy, Mickaël; **Demory, Brice-Olivier**; Oreshenko, Maria; Grimm, Simon L.; Ehrenreich, David; Heng, Kevin
ApJ, submitted.

Optical phase curves as diagnostics for aerosol composition in exoplanetary atmospheres
Oreshenko, Maria; Heng, Kevin; **Demory, Brice-Olivier**
MNRAS, 457, 3420

A map of the large day-night temperature gradient of a super-Earth exoplanet
Demory, Brice-Olivier; Gillon, Michael; de Wit, Julien; Madhusudhan, Nikku; Bolmont, Emeline; Heng, Kevin; Kataria, Tiffany; Lewis, Nikole; Hu, Renyu; Krick, Jessica; Stamenković, Vlada; Benneke, Björn; Kane, Stephen; Queloz, Didier
Nature, 532, 207

Temperate Earth-sized planets transiting a nearby ultracool dwarf star
Gillon, Michaël; Jehin, Emmanuël; Lederer, Susan M.; Delrez, Laetitia; de Wit, Julien; Burdanov, Artem; Van Grootel, Valérie; Burgasser, Adam J.; Triaud, Amaury H. M. J.; Opitom, Cyrielle; **Demory, Brice-Olivier**; Sahu, Devendra K.; Bardalez Gagliuffi, Daniella; Magain, Pierre; Queloz, Didier
Nature, 533, 221
***-> Role**: performed the dynamical simulations for the system.*

A combined transmission spectrum of the Earth-sized exoplanets TRAPPIST-1 b and c
de Wit, Julien; Wakeford, Hannah R.; Gillon, Michaël; Lewis, Nikole K.; Valenti, Jeff A.; **Demory, Brice-Olivier;** Burgasser, Adam J.; Burdanov, Artem; Delrez, Laetitia; Jehin, Emmanuël; Lederer, Susan M.; Queloz, Didier; Triaud, Amaury H. M. J.; Van Grootel, Valérie

Nature, 537, 69
-> Role: performed an independent data reduction and analysis of the WFC3 data.
Probing TRAPPIST-1-like Systems with K2
Demory, Brice-Olivier; Queloz, Didier; Alibert, Yann; Gillen, Ed; Gillon, Michael
ApJ, 825L, 25

FORS2 observes a multi-epoch transmission spectrum of the hot Saturn-mass exoplanet WASP-49b
Lendl, M.; Delrez, L.; Gillon, M.; Madhusudhan, N.; Jehin, E.; Queloz, D.; Anderson, D. R.; **Demory, B.-O.**; Hellier, C.
A&A, 587A, 67L

2015

The HARPS-N Rocky Planet Search I. HD219134b: A transiting rocky planet in a multi-planet system at 6.5 pc from the Sun
Motalebi, F.; Udry, S.; Gillon, M.; Lovis, C.; Segransan, D.; Buchhave, L. A.; **Demory, B. O**.; Malavolta, L.; Dressing, C. D.; Sasselov, D.; Rice, K.; Charbonneau, D.; Collier Cameron, A.; Latham, D.; Molinari, E.; Pepe, F.; Affer, L.; Bonomo, A. S.; Cosentino, R.; Dumusque, X.; Figueira, P.; Fiorenzano, A. F. M.; Gettel, S.; Harutyunyan, A.; Haywood, R. D.; Johnson, J.; Lopez, E.; Lopez-Morales, M.; Mayor, M.; Micela, G.; Mortier, A.; Nascimbeni, V.; Philips, D.; Piotto, G.; Pollacco, D.; Queloz, D.; Sozzetti, A.; Vanderburg, A.; Watson, C. A.,
A&A, 584, A72
-> Role: performed a reduction and data analysis of the Spitzer dataset that confirmed the transit.

Hubble Space Telescope search for the transit of the Earth-mass exoplanet Alp Cen Bb
Demory, Brice-Olivier; Ehrenreich, David; Queloz, Didier; Seager, Sara; Gilliland, Ronald; Chaplin, William J.; Proffitt, Charles; Gillon, Michael; Günther, Maximilian N.; Benneke, Björn; Dumusque, Xavier; Lovis, Christophe; Pepe, Francesco; Ségransan, Damien; Triaud, Amaury; Udry, Stéphane,
MNRAS, 450, 2043

A Semi-analytical Model of Visible-wavelength Phase Curves of Exoplanets
Hu, R.; **Demory, B.-O**.; Seager, S; Lewis, N. & Showman, A.P.,
ApJ, 802, 51H.

WASP-80b has a dayside within the T-dwarf range
Triaud, Amaury H. M. J.; Gillon, Michaël; Ehrenreich, David; Herrero, Enrique; Lendl, Monika; Anderson, David R.; Collier Cameron, Andrew; Delrez, Laetitia; **Demory, Brice-Olivier**; Hellier, Coel; Heng, Kevin; Jehin, Emmanuel; Maxted, Pierre F. L.; Pollacco, Don; Queloz, Didier; Ribas, Ignasi; Smalley, Barry; Smith, Alexis; Udry, Stéphane,
MNRAS, 450, 2279.
-> Role: computed the planet SED and brightness temperature estimates.

2014

The Large Albedos of Kepler's Super-Earths
Demory, B.-O., ApJ Letters, 789L, 20D
A global analysis of Spitzer and new HARPS data confirms the loneliness and metal-richness of GJ 436 b
Lanotte, A. A.; Gillon, M.; **Demory, B.-O**.; Fortney, J. J.; Astudillo, N.; Bonfils, X.; Magain, P.; Delfosse, X.; Forveille, T.; Lovis, C.; Mayor, M.; Neves, V.; Pepe, F.; Queloz, D.; Santos, N.; Udry, S.,
A&A, 572A, 73L

Planetary Candidates Observed by Kepler IV: Planet Sample from Q1-Q8
Burke, Christopher J.; Bryson, Stephen T.; Mullally, F.; Rowe, Jason F.; Christiansen, Jessie L.; Thompson, Susan E.; Coughlin, Jeffrey L.; Haas, Michael R.; Batalha, Natalie M.; Caldwell, Douglas A.; Jenkins, Jon M.; Still, Martin; Barclay, Thomas; Borucki, William J.; Chaplin, William J.; Ciardi, David R.; Clarke, Bruce D.; Cochran, William D.;
Demory, Brice-Olivier; Esquerdo, Gilbert A.; Gautier, Thomas N., III; Gilliland, Ronald L.; Girouard, Forrest R.; Havel, Mathieu; Henze, Christopher E.; Howell, Steve B.; Huber, Daniel; Latham, David W.; Li, Jie; Morehead, Robert C.; Morton, Timothy D.; Pepper, Joshua; Quintana, Elisa; Ragozzine, Darin; Seader, Shawn E.; Shah, Yash; Shporer, Avi; Tenenbaum, Peter; Twicken, Joseph D.; Wolfgang, Angie,
ApJ Supp, 210, 19B
-> Role: participated to the vetting of new Kepler planet candidates.

Revised Stellar Properties of Kepler Targets for the Quarter 1-16 Transit Detection Run
Huber, Daniel; Silva Aguirre, Victor; Matthews, Jaymie M.; Pinsonneault, Marc H.; Gaidos, Eric; García, Rafael A.; Hekker, Saskia; Mathur, Savita; Mosser, Benoit; Torres, Guillermo; Bastien, Fabienne A.; Basu, Sarbani; Bedding, Timothy R.; Chaplin, William J.;
Demory, Brice-Olivier; Fleming, Scott W.; Guo, Zhao; Mann, Andrew W.; Rowe, Jason F.; Serenelli, Aldo M.; Smith, Myron A.; Stello, Dennis,
ApJ Supp, 211, 2H.
-> Role: contributed to the discussions about the classification of very low-mass stars

Transit confirmation and improved stellar and planet parameters for the super-Earth HD 97658 b and its host star
Van Grootel, V.; Gillon, M.; Valencia, D.; Madhusudhan, N.; Dragomir, D.; Howe, A. R.; Burrows, A. S.; **Demory, B.-O**.; Deming, D.; Ehrenreich, D.; Lovis, C.; Mayor, M.; Pepe, F.; Queloz, D.; Scuflaire, R.; Seager, S.; Segransan, D.; Udry, S.,
ApJ, 786, 2V.
-> Role: contributed to the original proposal and ran an independent photometric analysis

2013

Inference of Inhomogeneous Clouds in an Exoplanet Atmosphere
Demory, Brice-Olivier; de Wit, Julien; Lewis, Nikole; Fortney, Jonathan; Zsom, Andras; Seager, Sara; Knutson, Heather; Heng, Kevin; Madhusudhan, Nikku; Gillon, Michael; Barclay, Thomas; Desert, Jean-Michel; Parmentier, Vivien; Cowan, Nicolas B.,
ApJ Letters, 776L, 25D

Understanding Trends Associated with Clouds in Irradiated Exoplanets
Heng, K. & **Demory, B.-O.,**
ApJ, 777, 100H

Search for a habitable terrestrial planet transiting the nearby red dwarf GJ 1214
Gillon, M.; **Demory, B.-O**.; Madhusudhan, N.; Deming, D.; Seager, S.; Zsom, A.; Knutson, H. A.; Lanotte, A. A.; Bonfils, X.; Désert, J.-M.; Delrez, L.; Jehin, E.; Fraine, J. D.; Magain, P.; Triaud, A. H. M. J.,
A&A, 563A, 21G

Spitzer Observations of GJ3470b: a Very Low-density Neptune-size Planet Orbiting a Metal-rich M dwarf
Demory, Brice-Olivier; Torres, Guillermo; Neves, Vasco; Rogers, Leslie; Gillon, Michaël; Horch, Elliott; Sullivan, Peter; Bonfils, Xavier; Delfosse, Xavier; Forveille, Thierry; Lovis, Christophe; Mayor, Michel; Santos, Nuno; Seager, Sara; Smalley, Barry; Udry, Stephane**,**
ApJ, 768, 154D

The Mass of KOI-94d and a Relation for Planet Radius, Mass, and Incident Flux
Weiss, Lauren M.; Marcy, Geoffrey W.; Rowe, Jason F.; Howard, Andrew W.; Isaacson, Howard; Fortney, Jonathan J.; Miller, Neil; **Demory, Brice-Olivier**; Fischer, Debra A.; Adams, Elisabeth R.; Dupree, Andrea K.; Howell, Steve B.; Kolbl, Rea; Johnson, John Asher; Horch, Elliott P.; Everett, Mark E.; Fabrycky, Daniel C.; Seager, Sara,
ApJ, 768, 14W

Confirmation of Hot Jupiter Kepler-41b via Phase Curve Analysis
Quintana, Elisa V.; Rowe, Jason F.; Barclay, Thomas; Howell, Steve B.; Ciardi, David R.; **Demory, Brice-Olivier**; Caldwell, Douglas A.; Borucki, William J.; Christiansen, Jessie L.; Jenkins, Jon M.; Klaus, Todd C.; Fulton, Benjamin J.; Morris, Robert L.; Sanderfer, Dwight T.; Shporer, Avi; Smith, Jeffrey C.; Still, Martin; Thompson, Susan E.,
ApJ, 767, 137Q

Spitzer Transits of the Super-Earth GJ1214b and Implications for its Atmosphere
Fraine, Jonathan D.; Deming, Drake; Gillon, Michaël; Jehin, Emmanuël;
Demory, Brice-Olivier; Benneke, Bjoern; Seager, Sara; Lewis, Nikole K.; Knutson, Heather; Désert, Jean-Michel,
ApJ, 765, 127F

The CORALIE survey for southern extrasolar planets. XVII. New and updated long period and massive planets
Marmier, M.; Ségransan, D.; Udry, S.; Mayor, M.; Pepe, F.; Queloz, D.; Lovis, C.; Naef, D.; Santos, N. C.; Alonso, R.; Alves, S.; Berthet, S.; Chazelas, B.; **Demory, B.-O.;** Dumusque, X.; Eggenberger, A.; Figueira, P.; Gillon, M.; Hagelberg, J.; Lendl, M.; Mardling, R. A.; Mégevand, D.; Neveu, M.; Sahlmann, J.; Sosnowska, D.; Tewes, M.; Triaud, A. H. M. J.
ApJ, 551, 90M
-> Role: participated to the CORALIE observations at La Silla (Chile).

Planetary Candidates Observed by Kepler. III. Analysis of the First 16 Months of Data
Batalha, Natalie M.; Rowe, Jason F.; Bryson, Stephen T.; Barclay, Thomas; Burke, Christopher J.; Caldwell, Douglas A.; Christiansen, Jessie L.; Mullally, Fergal; Thompson, Susan E.; Brown, Timothy M.; Dupree, Andrea K.; Fabrycky, Daniel C.; Ford, Eric B.; Fortney, Jonathan J.; Gilliland, Ronald L.; Isaacson, Howard; Latham, David W.; Marcy, Geoffrey W.; Quinn, Samuel N.; Ragozzine, Darin; Shporer, Avi; Borucki, William J.; Ciardi, David R.; Gautier, Thomas N., III; Haas, Michael R.; Jenkins, Jon M.; Koch, David G.; Lissauer, Jack J.; Rapin, William; Basri, Gibor S.; Boss, Alan P.; Buchhave, Lars A.; Carter, Joshua A.; Charbonneau, David; Christensen-Dalsgaard, Joergen; Clarke, Bruce D.; Cochran, William D.; **Demory, Brice-Olivier**; Desert, Jean-Michel; Devore, Edna; Doyle, Laurance R.; Esquerdo, Gilbert A.; Everett, Mark; Fressin, Francois; Geary, John C.; Girouard, Forrest R.; Gould, Alan; Hall, Jennifer R.; Holman, Matthew J.; Howard, Andrew W.; Howell, Steve B.; Ibrahim, Khadeejah A.; Kinemuchi, Karen; Kjeldsen, Hans; Klaus, Todd C.; Li, Jie; Lucas, Philip W.; Meibom, Søren; Morris, Robert L.; Prša, Andrej; Quintana, Elisa; Sanderfer, Dwight T.; Sasselov, Dimitar; Seader, Shawn E.; Smith, Jeffrey C.; Steffen, Jason H.; Still, Martin; Stumpe, Martin C.; Tarter, Jill C.; Tenenbaum, Peter; Torres, Guillermo; Twicken, Joseph D.; Uddin, Kamal; Van Cleve, Jeffrey; Walkowicz, Lucianne; Welsh, William F.,
ApJ Supp, 204, 24B
-> Role: participated to the vetting of new Kepler planet candidates.

2012

Detection of Thermal Emission from a Super-Earth
Demory, Brice-Olivier; Gillon, Michaël; Seager, Sara; Benneke, Bjoern; Deming, Drake; Jackson, Brian,
ApJ Letters, 751, L28

Photometrically Derived Masses and Radii of the Planet and Star in the TrES-2 System
Barclay, Thomas; Huber, Daniel; Rowe, Jason F.; Fortney, Jonathan J.; Morley, Caroline V.; Quintana, Elisa V.; Fabrycky, Daniel C.; Barentsen, Geert; Bloemen, Steven; Christiansen, Jessie L.; **Demory, Brice-Olivier**; Fulton, Benjamin J.; Jenkins, Jon M.; Mullally, Fergal; Ragozzine, Darin; Seader, Shaun E.; Shporer, Avi; Tenenbaum, Peter; Thompson, Susan E.,
ApJ, 761, 53
-> Role: performed an independent check of the results using MCMC analyses.

Towards consistent mapping of distant worlds: secondary-eclipse scanning of the exoplanet HD 189733b
de Wit, J., Gillon, M., **Demory, B.-O.** & Seager, S., 2012,
A&A, 548A, 128D

Kepler-22b: A 2.4 Earth-radius Planet in the Habitable Zone of a Sun-like Star
Borucki, William J.; Koch, David G.; Batalha, Natalie; Bryson, Stephen T.; Rowe, Jason; Fressin, Francois; Torres, Guillermo; Caldwell, Douglas A.; Christensen-Dalsgaard, Jørgen; Cochran, William D.; DeVore, Edna; Gautier, Thomas N.; Geary, John C.; Gilliland, Ronald; Gould, Alan; Howell, Steve B.; Jenkins, Jon M.; Latham, David W.; Lissauer, Jack J.; Marcy, Geoffrey W.; Sasselov, Dimitar; Boss, Alan; Charbonneau, David; Ciardi, David; Kaltenegger, Lisa; Doyle, Laurance; Dupree, Andrea K.; Ford, Eric B.; Fortney, Jonathan; Holman, Matthew J.; Steffen, Jason H.; Mullally, Fergal; Still, Martin; Tarter, Jill; Ballard, Sarah; Buchhave, Lars A.; Carter, Josh; Christiansen, Jessie L.; **Demory, Brice-Olivier**; Désert, Jean-Michel; Dressing, Courtney; Endl, Michael; Fabrycky, Daniel; Fischer, Debra; Haas, Michael R.; Henze, Christopher; Horch, Elliott; Howard, Andrew W.; Isaacson, Howard; Kjeldsen, Hans; Johnson, John Asher; Klaus, Todd; Kolodziejczak, Jeffery; Barclay, Thomas; Li, Jie; Meibom, Søren; Prsa, Andrej; Quinn, Samuel N.; Quintana, Elisa V.; Robertson, Paul; Sherry, William; Shporer, Avi; Tenenbaum, Peter; Thompson, Susan E.; Twicken, Joseph D.; Van Cleve, Jeffrey; Welsh, William F.; Basu, Sarbani; Chaplin, William; Miglio, Andrea; Kawaler, Steven D.; Arentoft, Torben; Stello, Dennis; Metcalfe, Travis S.; Verner, Graham A.; Karoff, Christoffer; Lundkvist, Mia; Lund, Mikkel N.; Handberg, Rasmus; Elsworth, Yvonne; Hekker, Saskia; Huber, Daniel; Bedding, Timothy R.; Rapin, W
ApJ, 745, 120
-> Role: performed an independent check of the results using MCMC analyses.
A Precise Physical Orbit for the M-dwarf Binary Gliese 268
Barry, R. K.; **Demory, B.-O**.; Ségransan, D.; Forveille, T.; Danchi, W. C.; Di Folco, E.; Queloz, D.; Spooner, H. R.; Torres, G.; Traub, W. A.; Delfosse, X.; Mayor, M.; Perrier, C.; Udry, S.,
ApJ, 760, 55

Improved precision on the radius of the nearby super-Earth 55 Cnc e
Gillon, M.; **Demory, B.-O**.; Benneke, B.; Valencia, D.; Deming, D.; Seager, S.; Lovis, Ch.; Mayor, M.; Pepe, F.; Queloz, D.; Ségransan, D.; Udry, S.,
A&A, 539, A28

The TRAPPIST survey of southern transiting planets. I. Thirty eclipses of the ultra-short period planet WASP-43 b
Gillon, M.; Triaud, A. H. M. J.; Fortney, J. J.; **Demory, B.-O**.; Jehin, E.; Lendl, M.; Magain, P.; Kabath, P.; Queloz, D.; Alonso, R.; Anderson, D. R.; Collier Cameron, A.; Fumel, A.; Hebb, L.; Hellier, C.; Lanotte, A.; Maxted, P. F. L.; Mowlavi, N.; Smalley, B.,
A&A, 542, 4G

2011

A short-period super-Earth orbiting the M2.5 dwarf GJ 3634. Detection with HARPS velocimetry and transit search with Spitzer photometry
Bonfils, X.; Gillon, M.; Forveille, T.; Delfosse, X.; Deming, D.; **Demory, B.-O**.; Lovis, C.; Mayor, M.; Neves, V.; Perrier, C.; Santos, N. C.; Seager, S.; Udry, S.; Boisse, I.; Bonnefoy, M.
A&A, 528, A111

Kepler-18b, c, and d: A System of Three Planets Confirmed by Transit Timing Variations, Light Curve Validation, Warm-Spitzer Photometry, and Radial Velocity Measurements
Cochran, William D.; Fabrycky, Daniel C.; Torres, Guillermo; Fressin, François; Désert, Jean-Michel; Ragozzine, Darin; Sasselov, Dimitar; Fortney, Jonathan J.; Rowe, Jason F.; Brugamyer, Erik J.; Bryson, Stephen T.; Carter, Joshua A.; Ciardi, David R.; Howell, Steve B.; Steffen, Jason H.; Borucki, William. J.; Koch, David G.; Winn, Joshua N.; Welsh, William F.; Uddin, Kamal; Tenenbaum, Peter; Still, M.; Seager, Sara; Quinn, Samuel N.; Mullally, F.; Miller, Neil; Marcy, Geoffrey W.; MacQueen, Phillip J.; Lucas, Phillip; Lissauer, Jack J.; Latham, David W.; Knutson, Heather; Kinemuchi, K.; Johnson, John A.; Jenkins, Jon M.; Isaacson, Howard; Howard, Andrew; Horch, Elliott; Holman, Matthew J.; Henze, Christopher E.; Haas, Michael R.; Gilliland, Ronald L.; Gautier, Thomas N., III; Ford, Eric B.; Fischer, Debra A.; Everett, Mark; Endl, Michael; **Demory, Brice-Olivier**; Deming, Drake; Charbonneau, David; Caldwell, Douglas; Buchhave, Lars; Brown, Timothy M.; Batalha, Natalie,
ApJS, 197, 7
-> Role: discussed the paper results and interpretation.

Detection of a transit of the super-Earth 55 Cancri e with warm Spitzer
Demory, B.-O.; Gillon, M.; Deming, D.; Valencia, D.; Seager, S.; Benneke, B.; Lovis, C.; Cubillos, P.; Harrington, J.; Stevenson, K. B.; Mayor, M.; Pepe, F.; Queloz, D.; Ségransan, D.; Udry, S.,
A&A Letters, 533, 114

Lack of Inflated Radii for Kepler Giant Planet Candidates Receiving Modest Stellar Irradiation
Demory, B.-O. and Seager, S. 2011,
ApJ Supp, 197, 12
The High Albedo of the Hot Jupiter Kepler-7 b
Demory, Brice-Olivier; Seager, Sara; Madhusudhan, Nikku; Kjeldsen, Hans; Christensen-Dalsgaard, Jørgen; Gillon, Michaël; Rowe, Jason F.; Welsh, William F.; Adams, Elisabeth R.; Dupree, Andrea; McCarthy, Don; Kulesa, Craig; Borucki, William J.; Koch, David G.,
ApJ Letters, 735, L12

The Hot-Jupiter Kepler-17b: Discovery, Obliquity from Stroboscopic Starspots, and Atmospheric Characterization
Désert, Jean-Michel; Charbonneau, David; **Demory, Brice-Olivier**; Ballard, Sarah; Carter, Joshua A.; Fortney, Jonathan J.; Cochran, William D.; Endl, Michael; Quinn, Samuel N.; Isaacson, Howard T.; Fressin, François; Buchhave, Lars A.; Latham, David W.; Knutson, Heather A.; Bryson, Stephen T.; Torres, Guillermo; Rowe, Jason F.; Batalha, Natalie M.; Borucki, William J.; Brown, Timothy M.; Caldwell, Douglas A.; Christiansen, Jessie L.; Deming, Drake; Fabrycky, Daniel C.; Ford, Eric B.; Gilliland, Ronald L.; Gillon, Michaël; Haas, Michaël R.; Jenkins, Jon M.; Kinemuchi, Karen; Koch, David; Lissauer, Jack J.; Lucas, Philip; Mullally, Fergal; MacQueen, Phillip J.; Marcy, Geoffrey W.; Sasselov, Dimitar D.; Seager, Sara; Still, Martin; Tenenbaum, Peter; Uddin, Kamal; Winn, Joshua N.,
ApJ Supp, 197, 14

Kepler-15b: A Hot Jupiter Enriched in Heavy Elements and the First Kepler Mission Planet Confirmed with the Hobby-Eberly Telescope
Endl, Michael; MacQueen, Phillip J.; Cochran, William D.; Brugamyer, Erik J.; Buchhave, Lars A.; Rowe, Jason; Lucas, Phillip; Isaacson, Howard; Bryson, Steve; Howell, Steve B.; Fortney, Jonathan J.; Hansen, Terese; Borucki, William J.; Caldwell, Douglas; Christiansen, Jessie L.; Ciardi, David R.; **Demory, Brice-Olivier**; Everett, Mark; Ford, Eric B.; Haas, Michael R.; Holman, Matthew J.; Horch, Elliott; Jenkins, Jon M.; Koch, David J.; Lissauer, Jack J.; Machalek, Pavel; Still, Martin; Welsh, William F.; Sanderfer, Dwight T.; Seader, Shawn E.; Smith, Jeffrey C.; Thompson, Susan E.; Twicken, Joseph D.,
ApJS, 197, 13
-> Role: discussed the paper results and interpretation.

Discovery and Atmospheric Characterization of Giant Planet Kepler-12b: An Inflated Radius Outlier
Fortney, Jonathan J.; **Demory, Brice-Olivier**; Désert, Jean-Michel; Rowe, Jason; Marcy, Geoffrey W.; Isaacson, Howard; Buchhave, Lars A.; Ciardi, David; Gautier, Thomas N.; Batalha, Natalie M.; Caldwell, Douglas A.; Bryson, Stephen T.; Nutzman, Philip; Jenkins, Jon M.; Howard, Andrew; Charbonneau, David; Knutson, Heather A.; Howell, Steve B.; Everett, Mark; Fressin, François; Deming, Drake; Borucki, William J.; Brown, Timothy M.; Ford, Eric B.; Gilliland, Ronald L.; Latham, David W.; Miller, Neil; Seager, Sara; Fischer, Debra A.; Koch, David; Lissauer, Jack J.; Haas, Michael R.; Still, Martin; Lucas, Philip; Gillon, Michael; Christiansen, Jessie L.; Geary, John C.,
ApJS, 197, 9

An educated search for transiting habitable planets:. Targetting M dwarfs with known transiting planets
Gillon, M.; Bonfils, X.; **Demory, B.-O.;** Seager, S.; Deming, D.; Triaud, A. H. M. J.,
A&A, 525, A32

2010

The thermal emission of the young and massive planet CoRoT-2b at 4.5 and 8 µm
Gillon, M.; Lanotte, A. A.; Barman, T.; Miller, N.; **Demory, B.-O**.; Deleuil, M.; Montalbán, J.; Bouchy, F.; Collier Cameron, A.; Deeg, H. J.; Fortney, J. J.; Fridlund, M.; Harrington, J.; Magain, P.; Moutou, C.; Queloz, D.; Rauer, H.; Rouan, D.; Schneider, J. ,
A&A, 511

The Spitzer search for the transits of HARPS low-mass planets. I. No transit for the super-Earth HD 40307b
Gillon, M.; Deming, D.; **Demory, B.-O.;** Lovis, C.; Seager, S.; Mayor, M.; Pepe, F.; Queloz, D.; Segransan, D.; Udry, S.; Delmelle, S.; Magain, P.,
A&A, 518, A25

The CORALIE survey for southern extrasolar planets. XVI. Discovery of a planetary system around HD 147018 and of two long period and massive planets orbiting HD 171238 and HD 204313
Ségransan, D.; Udry, S.; Mayor, M.; Naef, D.; Pepe, F.; Queloz, D.; Santos, N. C.; **Demory, B.-O.**; Figueira, P.; Gillon, M.; Marmier, M.; Mégevand, D.; Sosnowska, D.; Tamuz, O.; Triaud, A. H. M. J.,
A&A, 511, A45
-> Role: participated to the CORALIE observations at La Silla (Chile).

From very low-mass stars to exoplanets – characterisation with interferometric and photometric techniques
Demory, B.-O., PhD thesis, 3.7.2009, University of Geneva.

Mass-radius relation of low and very low-mass stars revisited with the VLTI
Demory, B.-O.; Ségransan, D.; Forveille, T.; Queloz, D.; Beuzit, J.-L.; Delfosse, X.; di Folco, E.; Kervella, P.; Le Bouquin, J.-B.; Perrier, C.; Benisty, M.; Duvert, G.; Hofmann, K.-H.; Lopez, B.; Petrov, R.,
A&A, 505, 205--215

VLT transit and occultation photometry for the bloated planet CoRoT-1b
Gillon, M.; **Demory, B.-O**.; Triaud, A. H. M. J.; Barman, T.; Hebb, L.; Montalbán, J.; Maxted, P. F. L.; Queloz, D.; Deleuil, M.; Magain, P.,
A&A, 506, 359--367

The CORALIE survey for southern extra-solar planets. XV. Discovery of two eccentric planets orbiting HD 4113 and HD 156846
Tamuz, O.; Ségransan, D.; Udry, S.; Mayor, M.; Eggenberger, A.; Naef, D.; Pepe, F.; Queloz, D.; Santos, N. C.; **Demory, B.-O**.; Figuera, P.; Marmier, M.; Montagnier, G.,
A&A, 480, L33-L36
-> Role: participated in the CORALIE exoplanet programme at La Silla (Chile).

Characterization of the hot Neptune GJ 436 b with Spitzer and ground-based observations
Demory, B.-O.; Gillon, M.; Barman, T.; Bonfils, X.; Mayor, M.; Mazeh, T.; Queloz, D.; Udry, S.; Bouchy, F.; Delfosse, X.; Forveille, T.; Mallmann, F.; Pepe, F.; Perrier, C.,
A&A, 475, 1125-1129

Accurate Spitzer infrared radius measurement for the hot Neptune GJ 436b
Gillon,M.; **Demory, B.-O.;** Barman,T.; Bonfils,X.; Mazeh,T.; Udry,S.; Mayor, M.; Queloz,D.,
A&A, 471, L51-L54

Detection of transits of the nearby hot Neptune GJ 436 b
Gillon, M.; Pont, F.; **Demory, B.-O.;** Mallmann, F.; Mayor, M.; Mazeh, T.; Queloz, D.; Shporer, A.; Udry, S.; Vuissoz, C.,
A&A, 472, L13-L16