



**Prof. Michel Mayor**  
**Professor Emeritus**  
**University of Geneva**  
**Switzerland**



**Le Recteur**  
Professeur Yves Flückiger  
Ligne directe: +4122 379 75 13  
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Geneva, November 20, 2018

**World Cultural Council  
"Albert Einstein" Award**

**Nomination of Professor MAYOR Michel for his work in Astronomy  
in the fields of exoplanets**

Dear Sir, Dear Madam,

It is my pleasure to nominate for the "Albert Einstein" Award Professor MAYOR Michel for his work in Astrophysics.

The high precision measurements of radial velocities developed at the Geneva Observatory have led to the discovery of the first exoplanets by Professor Michel Mayor and Professor Didier Queloz in 1995.

This discovery is a major fact in the History of Sciences. Its impact on the public as well as the scientific community is very large and it opened the development of a new field of research: extrasolar planets.

Consequently, this issue became a top priority for NASA and ESA, which launched several observation satellites devoted to the search and study of exoplanets. This discovery promoted as well research in the field of Astrobiology and several specialized institutes have been created over the world.

I provide you therefore with the details of the outstanding work of Professor Mayor in the nomination file attached, which allows me to strongly support the nomination of Professor Michel Mayor for the "Albert Einstein" Award.

Sincerely,

Yves FLÜCKIGER  
Rector of the University of Geneva



**UNIVERSITÉ  
DE GENÈVE**

**RECTORAT**

**Prof. Jean-Marc Triscone**

Vice-recteur

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**Albert Einstein World Award  
of Science**

**Proposal in favour of Michel MAYOR**

Geneva, November 20, 2018

Concern: « Nomination Letter » in favour of Professor Michel MAYOR

Professor Michel Mayor is a major figure of modern Astrophysics. He is the discoverer with Didier Queloz in 1995 of the first exoplanet around a solar type star. This discovery, which is a major event in History of Science, resulted from the ingenious development over many years of high precision measurements of stellar radial velocities by Michel Mayor and collaborators. It had a very important impact both among the scientists and the general public. It boosted the development of new major research programmes on the search and study of exoplanets by the astronomical community and the great space research organisations like NASA (satellite Kepler), ESA and CNES (satellite CoRoT). The discovery of exoplanets was also a major stimulation for the creation and development of institutes and research groups on the origin of life and on Astrobiology. Thanks to the work of Michel Mayor, the studies of exoplanets, both by observations and theory, has become one of the most topical research field in Astrophysics.

Over more than 40 years, the scientific activities and contributions of Michel Mayor have been very broad and significant. Before the great discovery, his contributions, both observational and theoretical, in stellar dynamics and dynamical evolution of the Galaxy were already very large and Michel Mayor was already a highly recognized scientist. After 1995, he has continued to foster the instrumental developments for the detection and studies of exoplanets and has contributed to many of the new results obtained on the properties and characteristics of the planetary systems detected. All these activities have resulted in more than 452 papers in referred publications with a total of 38559 citations (Dec 2017). Most articles are published in Astronomy and Astrophysics, and, if you care, to an H number of 102.

On top of that, Michel Mayor is a kind and efficient colleague, who has formed numerous young scientists over the world, developed a great number of scientific collaborations and has always been constructive for the Observatory and University. He greatly merits the proposed honour.

Jean-Marc Triscone  
*Vice-rector, former Dean of the Faculty of sciences*



Munich, 26 November 2018

## The Albert Einstein World Award of Science

To whom it may concern,

It is our distinct pleasure to express our strongest support to the nomination of Professor Michel Mayor (University of Geneva) to the Albert Einstein World Award of Science.

In 1995, Prof. Michel Mayor together with his graduate student of the time, Didier Queloz, discovered the first planet outside our solar system orbiting a solar-like star. Two decades later, several thousands of exoplanets have been discovered, a significant fraction of them by Prof. Mayor himself or by his collaborators. These planets show an incredible diversity in size, composition and arrangement and have changed our basic understanding of planet formation and evolution. But foremost, these discoveries have established that planets, including those the size of the Earth, are extremely common objects in the Universe. The fact that even very nearby stars host Earth-like planets opens the realistic possibility to search for signs of life beyond the solar system with a set of instruments that will become available within the next decade... A true revolution.

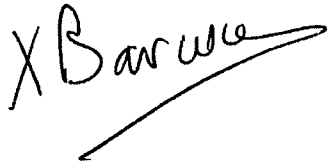
The discovery by Prof. Mayor was the result of the development over years of a precise radial velocity measurement method based on a cross-correlation technique. This pioneering work has led to ultra-stable high-resolution spectrographs such as the HARPS instrument located at the ESO 3.6m telescope at La Silla Observatory in Chile which was built under the leadership of Prof. Mayor and which is recognised worldwide as the most successful planet finding machine. In 2017, fifteen years after HARPS has been offered for the first time to the community, nearly 100 refereed publications were based on data taken by HARPS making this instrument still one of the four most productive from all the ESO observatories.

Today, the HARPS approach is being used as the basis for developing a new generation of ultra-stable spectrographs at ESO. Currently already in the commissioning phase at the VLT, ESPRESSO will reach performances such that possible variations of key physical constants, for example the fine structure constant or the proton to electron mass ratio, can be probed in addition to an exquisite detection and characterisation of exoplanets. Finally, HIRES, the latest generation of such spectrographs is currently being studied as part of the instrument suite to be installed at the ELT, which is now under construction and will be the largest telescope ever built.

One important measure of true scientific achievement is the extent to which a discovery or a new theory profoundly changes the field and/or society. We would argue that few discoveries in recent times have had such influence on science and society as the one by Prof. Michel Mayor. As indicators

for this, let us mention that the study of small mass planets has become one of the main science drivers for all the largest ground- and space-based astronomy projects all over the world (ELTs, JWST, etc.), that countless large scientific meetings are organized yearly on this topic, that numerous institutes and/or research centres dedicated to such studies have been established all over the world, and that this field of science enjoys an unprecedented media echo. It cannot be overstated that there have been very few scientific discoveries that have realised such a profound and powerful impact on humankind's perception of its place in the Universe as has been achieved by Prof. Mayor.

In summary, Prof. Michel Mayor has done more than significantly contribute to the field of astrophysics, he has revolutionized his science by opening the possibility to search for other planets and life in the Universe. We strongly believe he would be an outstanding recipient of the Award.

A handwritten signature in black ink, reading 'X Barcons', with a long, sweeping underline that extends to the right.

Xavier Barcons  
ESO Director General

A handwritten signature in black ink, reading 'W. Benz', in a cursive style.

Willy Benz  
ESO Council President



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INSTITUTO DE ASTROFÍSICA DE CANARIAS

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Prof. Rafael Rebolo  
Director  
Institute of Astrophysics of the Canary Islands

La Laguna, November 23, 2018

Reference: Nomination of Prof. Michel Mayor to the World Award of Science Albert Einstein

It is with great pleasure that I write this letter to support the nomination of Prof. Michel Mayor to the World Award of Science Albert Einstein. He discovered in 1995 the first exoplanet around a star like the Sun. This was research with his former PhD student Didier Queloz (now professor at Cambridge University). It was a major discovery in astronomy now recorded in textbooks all over the world. It impacted enormously subsequent research and prompted the creation of numerous groups dedicated to the search and characterization of exoplanets. It brought large momentum to a field which was at that time attractive to very few research groups. Today, thousands of researchers in tens of research centers and universities dedicate an impressive effort to the study of planets in a large variety of stars.

His pioneer work pushing the precision of radial velocity measurements of stars with high dispersion spectroscopy led to his discovery of the first exoplanet in a solar-type star, he had developed state of the art spectrographs for this. His subsequent work to achieve the most precise spectrograph ever built, the HARPS, now in operation at La Silla Obs. (Chile) led to many new discoveries of exoplanets and his detection of the first terrestrial mass planets in nearby stars. Today, these techniques have enabled radial velocity measurements of stars with precisions better than 0.2 m/s which are applied to quasars in order to establish if the fundamental constants of physics do not change with time.

The contributions of Prof. Mayor after 1995 have been crucial to achieve robust statistics on the frequency of exoplanets and this led to the design and construction of costly space observatories like COROT (CNES+ESA), Kepler (by NASA) and TESS (MIT) which using photometric techniques have enriched enormously the variety of planets that we know. Because of Prof. Mayor's seminal research, nowadays more than 3000 planets are known in our Galaxy. Beyond this, he has also made extensive work and outstanding contributions to the statistics of binary stars and properties of stellar populations, leading to a better understanding of our Galaxy.

His major contributions to science are reported in hundreds of highly cited research papers which have gained the respect and admiration of the international community. Among these contributions some are really so exceptional that have entered the history of science and he should receive major recognition for this. I fully support his nomination to the World Award of Science Albert Einstein.

With best regards

Rafael Rebolo  
Director, Instituto de Astrofísica de Canarias

# RESUME

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Last name: **MAYOR**  
First name: **Michel**  
Middle name: Gustave  
Date of birth: January 12, 1942  
Citizenship: Swiss  
Marital status: Married, 3 children  
Address: chemin de Borny, CH-1270 Trélex  
Tel. 0041-(0)22-369 17 95  
Position: Professor Emeritus at the Department of Astronomy,  
University of Geneva  
Tel (office) +41-(0)22-379 24 80

## DEGREES

- Master in Physics, Lausanne University, 1966
- “Certificat d’Astronomie et d’Astrophysique”, University of Geneva, 1968
- PhD, University of Geneva, 1971: “Essay on the kinematical properties of stars in the solar vicinity: possible relation with the galactic spiral structure.”

## ACADEMIC POSITIONS

- Assistant Geneva University 1966 – 1971
- Research associate (SNF) 1971 - 1984
- Associate professor, University of Geneva, 1984 - 1988
- Professor, University of Geneva, 1988 - 2007
- Director of the Geneva Observatory, 1998 - 2004
- Professor Emeritus, University of Geneva, since 2007

## PARTICIPATION IN PROFESSIONAL ASSOCIATIONS

- Organiser and publisher of 9 *Saas-Fee Advanced Courses* of the Swiss Society of Astrophysics and Astronomy
- Member of the Editorial Board of “Europhysics News”, 1985 – 1990
- Swiss delegate for the ESA (Agence Spatiale Européenne) “Astronomical Working Group”, 1985 – 1987
- President of the Commission 33 on “Structure and dynamics of the galactic system” of the International Astronomical Union (IAU), 1988 – 1991
- Chairman of the “Scientific Technical Committee of ESO (European Southern Observatory)”, 1990-1992
- President of the Swiss Society of Astrophysics and Astronomy (SSAA), 1990–1993
- Member of the Organising Committee of the IAU Commission on Bioastronomy, 1997 – 2003
- Swiss Delegate to the ESO Council , 2003 – 2007
- President of the IAU commission on “Extra-solar planets”, 2006 – 2009
- Member of the “European Academy of Sciences”, 2004
- Foreign Associate of the French Academy of Sciences, 2003
- Honorary Fellow of the Royal Astronomical Society (UK), 2008
- Foreign Member of the National Academy of Sciences (USA), 2010
- Foreign Member of the American Academy of Arts and Sciences, 2010
- Honorary Member of the AAS (American Astronomical Society), 2015
- Honorary Member of the EGU (European Geosciences Union), 2015

## AWARDS AND DISTINCTIONS

- Award of the “Académie Française des Sciences” 1983 (Prix “Charles-Louis de Saulces de Freycinet”, this prize has been jointly awarded to André Baranne and Michel Mayor).
  - Discovery of the first extra-solar planet 51 Peg, cited by “Sciences” as one of the 10 most important discoveries in 1995
  - Medal of the IAU Commission of Bioastronomy awarded at the General Assembly at Kyoto, 1997 (this medal has been jointly awarded to M. Mayor, D. Queloz, G. Marcy, P. Butler)
  - Laureate of “Marcel-Benoist” Award 1998 of the Swiss Confederation
  - Janssen’s Medal awarded by the *Société Astronomique de France*, 1998
  - ADION’s Medal awarded by the Observatoire de la Côte d’Azur, Nice (France), 1999
  - Laureate of the “E. Balzan” International Award 2000
  - Medal awarded by the Montpellier University (France), 2001
  - Prize “Livre de l’astronomie 2001” awarded for the publication of the book “Les nouveaux mondes du cosmos” (in collaboration with P.Y.Frei) awarded by the 17th Astronomy Festival Haute Maurienne/F
  - Einstein Medal, 2004
  - Knight of the French *Légion d’Honneur* 2004
  - Member of the list of “Highly cited Scientists” (Presently, h-index 91)
  - Laureate of the Prize of the “Fondation pour Genève”, 2005
  - Laureate of the Shaw Prize for Astronomy (shared with G. Marcy), Hong-Kong, 2005
  - Medal of the University of Geneva, 2009
  - Karl-Schwarzschild Medal awarded by the Deutsche Astronomische Gesellschaft, 2010
  - Viktor Ambartsumian International Prize (shared with G. Israelian and N. Santos), 2010
  - Prize (Sciences) awarded by the town of Geneva (shared with D.Queloz and S.Udry), 2011
  - BBVA “Frontiers of Knowledge Award ” (shared with D.Queloz), Madrid 2012
  - Nature Citation as a member of the 2013 Top Ten Scientists
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- Gold Medal of the Royal Astronomical Society (UK), 2015
  - Tycho Brahe Prize awarded by the European Astronomical Society , 2015
  - Kyoto Prize in Basic Sciences, awarded by the Inamori Foundation, 2015
  - Jean-Dominique Cassini Medal awarded by the European Geosciences Union, 2016
  - Officer of the French order “Légion d’Honneur”, 2017
  - Wolf Prize (Physics), 2017

## HONORARY DEGREES

- Honorary Doctor of Katholieke Universiteit Leuven (Belgium), 2001
- Honorary Doctor of the Swiss Institute of Technology, 2002
- Honorary Doctor of the Federal University of Rio Grande do Norte (Brazil), 2006
- Honorary Doctor of Philosophy of Uppsala University (Sweden), 2007
- Honorary Doctor of Paris Observatory (France), 2008
- Honorary Doctor of the “Université Libre de Bruxelles”, (Belgium), 2009
- Honorary Doctor of the University of Provence (Marseille, France), 2011
- Honorary Doctor of the Joseph Fourier University (Grenoble, France), 2014

## SPECIAL LECTURES AND INVITED DISCOURSES

- Invited Discourse of the General Assembly of the International Astronomical Union, Manchester, Aug. 2000
- Niels Bohr Lecture, Copenhagen, 2000
- 5th Leibniz Kolleg’s Lecture, Potsdam (Germany), 2001
- Laureate of the Helen Sawyer-Hogg Prize, awarded by the Canadian Astronomical Society, 2005
- Barringer’s Lecture at the 69th annual meeting of the Meteoritical Society, Zurich 2006
- Payne-Gaposchkin’s Lecture at Harvard University (US), 2008

- Marker's Lecture at Pennstate University (US), 2008
- Kepler's Lecture at Tübingen University (Germany), 2009
- Andrew Chamblin's lecture at Cambridge University, 2010
- Karl-Schwarschild's lecture at the meeting of the Deutsche Astronomische Gesellschaft , Bonn, 2010
- Edmund Halley's lecture at Oxford University, 2011
- Paco Yndurain's lecture at Madrid University, 2011
- Yervant Terzian's lecture at Cornell University, 2012
- Einstein's lecture at the Weizmann Institute (Israel), 2013

## A FEW SELECTED PAPERS

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p><b><i>A Jupiter-mass companion to a solar type star</i></b><br/> <i>Nature</i> 378, 355 (1995)<br/> <b>Mayor M.</b>, Queloz D.<br/> <i>First discovery of a planet orbiting a solar-type star.</i><br/> <i>This first exoplanet iprovides the first evidence of planetary migration, a physical effect involved in any present scenario of planetary formation.</i></p> <p><i>Paper selected in “A Century of Nature; Twenty-one discoveries that changed Science and the World”. Edited by Laura Garvin of Tim Lincoln University of Chicago Press 2003.</i><br/> <i>One of the 3 selected papers in astronomy.</i></p> |
| 2 | <p><b><i>An extra-solar planetary system with three Neptune-mass planets</i></b><br/> <i>Nature</i>,441, 305 L, (2006)<br/>         Lovis C., <b>Mayor M.</b>, Pepe F., et al.<br/> <i>The first example of the population of Neptune mass-planets on tight orbits.</i></p>                                                                                                                                                                                                                                                                                                                                                 |
| 3 | <p><b><i>The HARPS search for southern extra-solar planets</i></b><br/> <b><i>XIII. A planetary system with 3 super-Earths (4.2, 6.9, and 9.2 <math>M_{\oplus}</math>)</i></b><br/> <i>A&amp;A</i>, 493, 639, (2009)<br/> <b>Mayor M.</b>, Udry S., Lovis C., et al.<br/> <i>A planetary system with 3 super-earths. The first example of the rich population of Super-Earth orbiting solar-type stars.</i></p>                                                                                                                                                                                                             |
| 4 | <p><b><i>The HARPS search for southern extra-solar planets</i></b><br/> <b><i>XVIII. An Earth-mass planet in GJ 581 planetary system</i></b><br/> <i>A&amp;A</i>, 507, 487, (2009)<br/> <b>Mayor M.</b>, Bonfils X., Forveille T., et al.</p>                                                                                                                                                                                                                                                                                                                                                                               |
| 5 | <p><b><i>Detection of planetary transits across a sun-like star</i></b><br/> <i>ApJ</i> , 529 L, 45 (2000)<br/>         Charbonneau, D., Brown, T. W., Latham, D. W., <b>Mayor M.</b><br/> <i>The first detection of a transiting planet.</i></p>                                                                                                                                                                                                                                                                                                                                                                           |
| 6 | <p><b><i>Detection of a spectroscopic transit by the planet orbiting the star HD209458</i></b><br/> <i>A&amp;A</i>, 359, 13 (2000)<br/>         Queloz, D., Eggenberger, A., <b>Mayor, M.</b> et al.<br/> <i>The first Rossiter-McLaughlin effect due to a transiting planet. This measurement allows the estimation of the relative angle between the orbital planet and the stellar equatorial planet.</i></p>                                                                                                                                                                                                            |
| 7 | <p><b><i>Evidence for planet engulfment by the star HD 82943</i></b><br/> <i>Nature</i>, 411, 163 (2001)<br/>         Israelian, G., Santos, N. C., <b>Mayor, M.</b>, Rebolo, R.<br/> <i>In that paper we present the Li 6 test to search for evidence of such engulfment of planets.</i></p>                                                                                                                                                                                                                                                                                                                               |
| 8 | <p><b><i>The metal-rich nature of stars with planets</i></b><br/> <i>A&amp;A</i>,373, 1019 (2001)<br/>         Santos, N.,Israelian,G., <b>Mayor,M.</b> et al.<br/> <i>The work described in this paper represents the first uniform and unbiased comparison between stars with and without planetary-mass companions in a volume limited sample. The results show that:</i></p> <ol style="list-style-type: none"> <li>1) <i>stars with planets are significantly metal-rich</i></li> <li>2) <i>the source of metallicity is most probably primordial</i></li> </ol>                                                       |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9  | <p><b>Setting new standards with HARPS.</b><br/> Msng. 114, 20 (2003)<br/> <b>Mayor, M.</b>, Pepe, F., Queloz, D. et al.</p> <p><i>Brief description of the new HARPS instrument installed on the ESO 3.6 m telescope at La Silla observatory. Still today the most precise spectrograph to detect exoplanets by Doppler spectroscopy. References 2,3,4,10 illustrate a few discoveries made by that instrument. (M. Mayor was the Pi of the consortium having developed HARPS )</i><br/> <i>References 11 and 12 illustrate recent detections of Earth-type planets made with the northern copy of HARPS, installed at La Palma Observatory on the Galileo telescope. That spectrograph has to contribute to the characterization of very low mass planets detected by the Kepler space mission.</i></p> |
| 10 | <p><b>The HARPS search for southern extra-solar planets.</b><br/> <b>XXVII. Up to seven planets orbiting HD 10180: probing the architecture of low-mass planetary systems</b><br/> A&amp;A, 528,112 (2011)<br/> Lovis C., Segransan D., <b>Mayor M.</b> et al.<br/> <i>A planetary system with 7 planets, most of them on very tight orbits.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**452** papers in referred publications with a total of **38559** citations (Dec 2017)  
Most articles published in Astronomy and Astrophysics.

**h index** = 102

## PUBLICATIONS

### 1. PEER-REVIEWED ARTICLES

#### RECENT PUBLICATIONS (2014-2017)

##### **Precise Masses in the WASP-47 System**

Vanderburg, A., and 34 colleagues (2017) AJ, 154, 237

##### **Characterization of the K2-18 multi-planetary system with HARPS. A habitable zone super-Earth and discovery of a second, warm super-Earth on a non-coplanar orbit**

Cloutier R., and 18 colleagues (2017) A&A, 608, 35

##### **Three's Company: An additional Non-transiting Super-Earth in the Bright HD 3167 System, and masses for all Three Planets**

Christiansen, J.L., and 57 colleagues (2017) AJ, 154, 122

##### **The HARPS search for southern extra-solar planets. XLII. A system of Earth-mass planets around the nearby M dwarf YZ Ceti**

Astudillo-Defru, N., and 15 colleagues (2017) A&A, 605, 11

##### **The HARPS search for southern extra-solar planets. XLI. A dozen planets around the M dwarfs GJ 3138, GJ 3323, GJ 273, GJ 628, and GJ 3293**

Astudillo-Defru, N. and 12 colleagues (2017) A&A, 602, 88

##### **The Kepler-19 System: A Thick-envelope Super-Earth with Two Neptune-mass Companions Characterized Using Radial Velocities and Transit Timing Variations**

Malavolta, Luca, and 38 colleagues (2017) AJ, 153, 224

##### **The Spitzer search for the transits of HARPS low-mass planets. II. Null results for 19 planets**

Gillon, M. and 11 colleagues (2017) A&A, 601, 117

##### **Two massive rocky planets transiting a K-dwarf 6.5 parsecs away**

Gillon, M. and 16 colleagues (2017) NatAs, 1, 56

##### **Double stars with wide separations in the AGK3 –II. The wide binaries and the multiple systems**

Halbwachs, J.L., Mayor, M., Udry, S (2017) MNRAS, 464, 4966

##### **A super-Earth orbiting the nearby M dwarf GJ 536**

Suárez Mascareño, A. and 15 colleagues (2017) A&A, 597, 108

##### **Kepler-21b: A Rocky Planet Around a V = 8.25 Magnitude Star**

Lopez-Morales, M., and 38 colleagues (2016) AJ, 152, 204

##### **The Orbit and Mass of the Third Planet in the Kepler-56 System**

Otor, O.J. and 22 colleagues (2016) AJ, 152, 165

##### **A 1.9 Earth Radius Rocky Planet and the Discovery of a Non-transiting Planet in the Kepler-20 System**

Buchhave, L.A. and 38 colleagues (2016) AJ, 152, 160

**An extreme planetary system around HD 219828. One long-period super Jupiter to a hot-Neptune host star**

Santos,N.C. and 21 colleagues, (2016) A&A, 592, 13

**The SOPHIE search for northern extrasolar planets. XI. Three new companions and an orbit update: Giant planets in the habitable zone**

Diaz,R.F, and 27 colleagues, (2016) A&A,591,146

**The HARPS search for southern extra-solar planets. XL. Searching for Neptunes around metal-poor stars**

Faria,J.P. and 16 colleagues (2016) A&A,589,25

**The Kepler-454 System: A Small, Not-rocky Inner Planet, a Jovian World, and a Distant Companion**

Gettel,S. and 49 colleagues (2016) ApJ, 816,95

**The HARPS search for southern extra-solar planets. XXXIX. HD 175607, the most metal-poor G dwarf with An orbiting sub-Neptune**

Mortier,A. and 18 colleagues (2016) A&A,585,135

**The HARPS search for southern extra-solar planets. XXXVIII. Bayesian re-analysis of three systems. New super-Earths, unconfirmed signals, and magnetic cycles**

Diaz,R.F. and 24 colleagues (2016) A&A, 585,134

**The SOPHIE search for northern extrasolar planets. VIII. Follow-up of ELODIE candidates: long-period brown-dwarf companions**

Bouchy,F., and 31 colleagues (2016) A&A, 585,46

**The HARPS-N Rocky Planet Search. I. HD 219134 b: A transiting rocky planet in a multi-planet system at 6.5 pc from the Sun**

Motalebi,F. and 38 colleagues (2015) A&A,584,72

**A rocky planet transiting a nearby low-mass star**

Berta-Thompson,Z.K., and 20 colleagues (2015) Nature,527,204

**A HARPS view on K2-3**

Almenara,J.M., and 16 colleagues (2015) A&A, 581,7

**DE0823-49 is a juvenile binary brown dwarf at 20.7 pc**

Sahlmann,J. and 8 colleagues (2015) A&A, 579,61

**Astrometric planet search around southern ultracool dwarfs. III. Discovery of a brown dwarf in a 3-year orbit around DE0630-18**

Sahlmann,J, and 6 colleagues (2015) A&A,577,15

**Evidence for a spectroscopic direct detection of reflected light from 51 Pegasi**

Martins,J.H.C. and 13 colleagues (2015) A&A,576,134

**The HARPS search for southern extra-solar planets. XXXVII. Five new long-period giant planets and a**

**system update**

Moutou,C., and 12 colleagues (2015) A&A, 576,48

**The HARPS search for southern extra-solar planets. XXXVI. Planetary systems and stellar activity of the M dwarfs GJ 3293, GJ 3341, and GJ 3543**

Astudillo-Defru,N. and 15 colleagues (2015) 575,119

**The Mass of Kepler-93b and The Composition of Terrestrial Planets**

Dressing,C.D., and 34 colleagues (2015) ApJ,800,135

**Characterizing K2 Planet Discoveries: A Super-Earth Transiting the Bright K Dwarf HIP 116454**

Vanderburg,A., and 45 colleagues (2015) ApJ,800,59

**A global analysis of Spitzer and new HARPS data confirms the loneliness and metal-richness of GJ 436 b**

Lanotte,A.A, and 15 colleagues (2014) A&A, 572,73

**Characterization of the planetary system Kepler-101 with HARPS-N. A hot super-Neptune with an Earth-sized low-mass companion**

Bonomo,A.S., and 34 colleagues (2014) A&A,572,2

**Near-infrared transmission spectrum of the warm-Uranus GJ 3470b with the Wide Field Camera-3 on the Hubble Space Telescope**

Ehrenreich,D. and 9 colleagues (2014) A&A, 570,89

**Doppler spectroscopy as a path to the detection of Earth-like planets**

Mayor,M,Lovis,C., Santos,N., Nature 513,328

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## Publications until 2014 :

1. **The Kepler-10 Planetary System Revisited by HARPS-N: A Hot Rocky World and a Solid Neptune-Mass Planet**  
Dumusque, X., Bonomo, A. S., Haywood, R. D., and 31 colleagues  
(2014), ApJ, 789, 154
2. **The HARPS search for southern extra-solar planets. XXXV. The interesting case of HD 41248: stellar activity, no planets?**  
Santos, N. C., Mortier, A., Faria, J. P., and 21 colleagues  
(2014), A&A, 566, A35
3. **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., and 15 colleagues  
(2014), ApJ, 786, 2
4. **Search for brown-dwarf companions of stars (Corrigendum)**  
Sahlmann, J., Ségransan, D., Queloz, D., and 7 colleagues  
(2014), A&A, 565, 2
5. **Astrometric planet search around southern ultracool dwarfs. II. Astrometric reduction methods and a deep astrometric catalogue**  
Lazorenko, P. F., Sahlmann, J., Ségransan, D., and 4 colleagues  
(2014), A&A, 565, A21
6. **Astrometric planet search around southern ultracool dwarfs. I. First results, including parallaxes of 20 M8-L2 dwarfs**  
Sahlmann, J., Lazorenko, P. F., Ségransan, D., and 4 colleagues  
(2014), A&A, 565, A20
7. **Li depletion in solar analogues with exoplanets. Extending the sample**  
Delgado Mena, E., Israelian, G., González Hernández, J. I., and 8 colleagues  
(2014), A&A, 562, A92
8. **A catalog of rotational and radial velocities for evolved stars. V. Southern stars**  
De Medeiros, J. R., Alves, S., Udry, S., and 3 colleagues  
(2014), A&A, 561, A126
9. **An Earth-sized planet with an Earth-like density**  
Pepe, F., Cameron, A. C., Latham, D. W., and 31 colleagues  
(2013), Natur, 503, 377
10. **New and updated stellar parameters for 71 evolved planet hosts. On the metallicity-giant planet connection**  
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