



General Assembly 2022 April 25-28, Grindelwald

Mission: Carry out and coordinate leading research to enhance our understanding of the formation, evolution, and habitability of planetary systems (Solar System and exoplanetary systems) and their constituents.





Strategy: The research carried out shall be multi-disciplinary, making best use of the entire spectrum of approaches (observation, laboratory, theory) and methods (experiments, simulations)

The National Centres of Competence in Research (NOCR) are a research instrument of the Sarias National Science Foundation



The team

General assemblies during phase 2





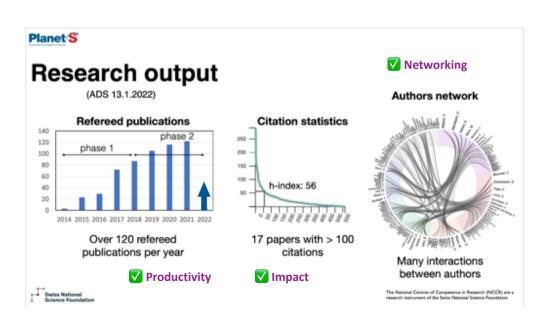


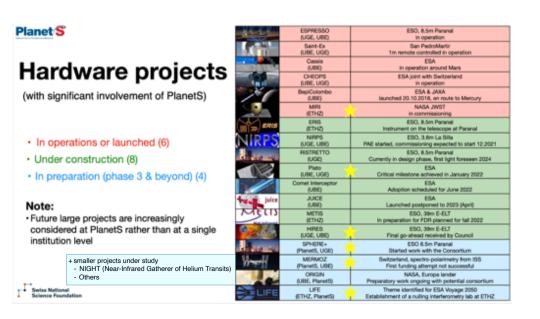


157 registered participants

the Universities of Bern, Geneva, and Zürich and the ETH Zürich

Swiss National Science Foundation







April 2022, NIRPS IR spectrograph installed on the 3.6m ESO telescope



First thermal cycle on-going First image expected mid May



PLATO

- · April 2022: passed critical review => green light for building
- · Tests (STM) on-going











PLATO TOU Structural & Thermal Model (STM) on UBE shaker (left) TOU Flight Model (FM) mechanical parts inside UBE thermal chamber. Credit: UBE

Planet S

At larger scale and important for PlanetS









https://nccr-planets.ch/news/

Planet 5 **Activities in the news**

since last panel visit (early June 2021)



11.1.22 CHEOPS reveals a rugby







15.12.21 How did the peculiar 14.12.21 Two-year launch moons of Neptune form? anviversary of CHEOPS





https://nccr-planets.ch/news/

8.12.21 A planet beyond





13,10,21 Did Venus ever have

Communication



Martin Turbet's professional path



Activities in the news



17 Mar 2022 🛔 💸 A closer look at Jupiter's origin story

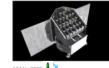


And more since January....

Imaging an Earthly neighbour



The astronomer in your class room



17 Mar 2022 A How Switzerland contributes to PLATO



28 Jan 2022 🖵 🔌 🅌 Extreme exoplanet has a complex and exotic atmosphere













Swiss National Science Foundation



Prestigious grants/fellowships

- Brice-Olivier Demory (UBE), ERC Consolidator 2022, SenseLife
- Monika Lendl (UGE), Eccellenza 2021, Tatiana (time variability as a window on planet climate)
- Vincent Bourrier (UGE), ERC starting grant 2021, Spice Dune (close-in planets)
- Judith Szulagyi (ETHZ), ERC starting grant 2020, Planet and Moon factory
- Xavier Dumusque (UGE), ERC starting grant 2020, SCORE (Signal Correction to Reveal other Earths)
- · Fabio Ferrari (UBE), Ambizione 2020, Dynamics and evolution of small bodies in the Solar System
- Elspeth Lee (UBE), Ambizione 2020, Exoplanet atmospheres in 3D: Clouds, chemistry and radiative transfer in the JWST era.





Recent faculty changes (scientific positions)

· Didier Queloz

- Move from UGE to ETHZ (50% ETHZ & 50% U. Cambridge) => Centre pour la Vie dans l'Univers (CVU) at UGE Origin and prevalence of life initiative at ETHZ coordinated by Prof. Emeline Bolmont
- · Christoph Mordasini
- · Appointed full professor at UBE, succession of W. Benz
- · Lucio Mayer
- · Promoted full professor at UZH
- · Francesco Pepe
- · Promoted full professor at UGE
- · Kevin Heng
- · Will be leaving UBE for LMU Münich in summer 2022
- Resources for his position are secured. Replacement is part of a major faculty renewal plan at UBE (2 oP retirements in ~5 years) which needs faculty approval.



- · Sascha Quanz
- Associate professor (ETHZ)
- · Yann Alibert
- · promoted to associate professor (UBE)
- Christophe Lovis
- · promoted to associate professor (UGE)
- · Damien Ségransan
- promoted to associate professor (UGE)
- · Henner Busemann
- · promoted to titular professor (ETHZ)
- · Joachim Stadel
- promoted to titular professor (UZH)
- · Antoine Pomerol
- · Dozent (UBE)



Honours

- Maria Schönbächler (ETHZ), Jessberger award 2021, Meteoritical Society
- Judith Szulagyi (ETHZ), MERAC Prize 2021
- · Verle Sternen (ETHZ), Christoph Plantin Prize 2021, Belgium
- Monika Lendl (UGE), invited as the "ESA Distinguished Lecturer" 2022 at Space Telescope Science Institute, "highlighting breakthrough results from ESA missions" (CHEOPS)
- · Salome Gruchola (UBE), Faculty Prize 2021for best master thesis in sciences
- · Chloe Fischer (UBE), Faculty Prize 2021 for best doctoral thesis in sciences
- · Michel Mayor (UGE)
 - Foreign member, Royal Academy of Sciences, Spain
 - Foreign member, Academy of Sciences, Torino, Italy





Finally, it is important to note that young scientists within PlanetS managed to obtain academic positions abroad:

- 1. Jens Hoeijmakers (UGE and UBE): Assistant professor at Lund University, Sweden
- Heather Cegla (CHEOPS Fellow): UKRI Future Leaders Fellowship coupled to a future professorship position
- 3. Pierre Auclair-Desrotour (UBE): Astronomer at the CNAP (France)
- 4. Martin Turbet (UGE): Researcher at CNRS
- 5. Others...





Committees (new appointments)

- Maria Schönbächler (ETHZ)
- Vice-president of the Foundation Council of SNSF
- Stéphane Udry (UGE)
- Member, Comité Fédéral des Affaires Spatiales (CFAS)
- Member, ERC Consolidator Review Panel

International:

- Willy Benz (UBE)
- President-Elect of the IAU
- Member, OECD expert group on Very Large Research Infrastructures
- Nicolas Thomas (UBE)
- Member, Mars ice mapper measurement definition team (NASA / CSA)
- Kevin Heng (UBE)
- Vice-president Division F of the IAU
- Swiss National Science Founds

- Lucio Mayer (UZH)
- · Member, Swiss SKA Board
- Klaus Mezger (UBE)
- · Member Europlanet Review Board
- Ravit Helled (UZH)
- Member, European Space Science Committee
- · Co-Investigator Juno mission
- Monika Lend
- · Hubble Space Telescope Time Alloc, Committee
- · Europlanet Research Infrastructure Science Advisory Board

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Title of the MCCP

NCCR Director / Co-Director

Report of Year 7 of PlanetS (+ Phase 3 pre-proposal)







Report of Year 7 of PlanetS + Phase 3 pre-proposal Site visit (June 3-4 2021): feedback from the panel (1)

=> very positive

The review panel continues to be truly impressed by the achievements of NCCR PlanetS and is pleased by the responses to last year's recommendations.

Focussing first on the past year, the review panel noted that NCCR PlanetS has continued both to deliver top-level research despite a challenging pandemic year and to make improvements in all structure-related aspects. The panel experts were particularly pleased to see results obtained from the CHEOPS mission and by the impact of the DACE platform. The way cosmochemistry has been integrated in the project overall was further praised as a success towards interdisciplinarity. Regarding the remainder of phase II, the review panel made the following recommendations:

However:





Report of Year 7 of PlanetS + Phase 3 pre-proposal Site visit (June 3-4 2021): feedback from the panel (2)

- The panel noted that the intermediate report and pre-proposal did not provide a global 'big picture' and the connecting line(s) between the activities in the Domains and Bonus area. They of the connections wish to see more Figures that synthesize results, as well as descriptions of what makes the between activities projects unique and how they differ from similar endeavours elsewhere. They further encourage => improved for the NCCR to write review papers on the different topics, which will likely have a high impact in proposal of Phase 3
- The review panel is pleased to see the number of women increase at all levels since the beginning of the NCCR. However, it seems that recently several men at the PI level have obtained permanent positions while women at the same level, who have obtained very competitive grants (ERC, SNSF Eccellenza), do not yet appear to be on permanent contracts. The panel asks that the NCCR and Home/Partner Institutions reflect upon how these successful female researchers can obtain permanent positions after the end of their grants.
- While the Review Panel reported having had overall good discussions during the poster session, they found that the presentation skills could be improved (e.g., delivering the key messages briefly and limiting the amount of text on the poster) and recommend mentors to provide guidance.
- **Swiss National** Science Foundation

Careers of women

Phases 1-2 at UGE (Emeline, Monika)

W UBE Plan in Phase 3

Presentation skills

=> to be improved



Internal call for proposals 2021

- A call was issued (26.10.2021) for the remaining unused reserves totalling ~230 kCHF
 - Open to everyone (members & associates)
- · 27 proposals received requesting 704 kCHF in total
- · Selection by the Board:
 - 9 proposals funded from reserves: 230 kCHF
 - 4 proposals funded from TECHNO platform: 115 kCHF
 - 1 proposal funded from COMM platform: 28 kCHF
 - 2 proposals funded from UBE reserves: 24 kCHF
 - 2 proposal with matching fund from UGE: 77 kCHF

Total proposals funded: 15 Total amount: 474 kCHF

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Update on Outreach

- · Stellarium Gornergrat has won a grant of 200 kCHF from the Swiss Academy to promote STEM education
- · Two new activity centres are being constructed/planed with significant implication of PlanetS S30: Swiss Space & Sustainability Observatory 51 Peg visitor center (Geneva Observatory)

(Uecht near Bern)









Funding 90% complete, construction started

(feasibility study completed) In the planing

The goals is to ultimately link these centres together with the Gornergrat observatory and provide hands-on activities for school children and the public





Budget Phase 2

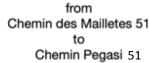
- under control, i.e. budget used or attributed to well defined purposes
- carry-over for projects/activities ending after the end of phase 2
 - pandemic
 - end of PhD theses or postdoctoral stays
 - delay of instrumental projects or hardware procurements
 - etc
 - => Accepted by the SNF (12.04.2022)





Address change for Geneva Observatory









Planet 5

Books

Salomé comic books



- 10'000 pupils have been using these books and related activities in 2021
- · German translation is in preparation
- · Spanish version prepared in collaboration with ESO
- and the Swiss embassy in Chile
- Science Foundation

Textbook



- · Written by N. Thomas (Springer Verlag)
- "This new book is a very welcome and timely addition to the collection... This is an excellent, comprehensive, and up-to-date description of comets, and I thoroughly recommend it."

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Division IV of the Research Council also approved the candidature of Prof. Thomas as new Director of NCCR PlanetS starting 1 June 2022.

Moreover, Division IV of the Research Council discussed the pre-proposal for the 3rd funding phase of the NCCR PlanetS. We are pleased to inform you that based on the progress, successful development and future plans of the NCCR PlanetS, the Research Council approved its continuation in phase III. This decision is taken under the condition that the full proposal meets all basic requirements of an NCCR and convincingly addresses the recommendations formulated by the Review Panel (Article 22 of the NCCR contract).

