

EPSC 2018

European Planetary Science Congress 2018

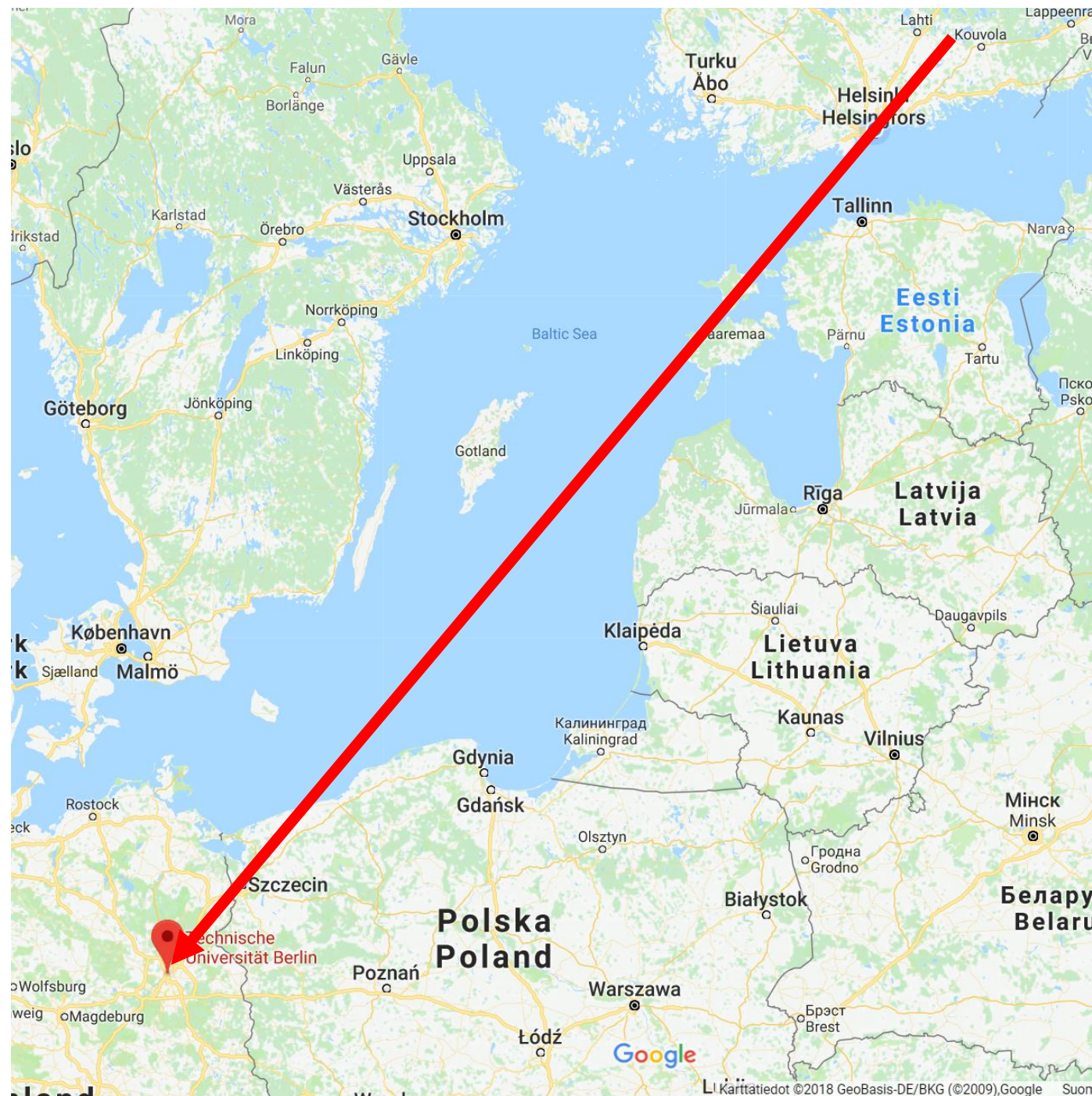
16–21 Syyskuuta 2018

TU Berlin | Berliini | Saksa



Paikka ja aika

- Berliini, Saksa
- Syyskuun 16.-21. päivä
- Koko viikon ajan avaruusasialla
- Suorat lennot



- TU Berlin: Technische Universität Berlin
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<i>Underground:</i>	Ernst-Reuter-Platz, Line 2 (red Line)
<i>Bus:</i>	Ernst-Reuter-Platz, Lines M45, 245 and X9 Steinplatz, Lines M45 and 245
<i>S-Bahn:</i>	Zoologischer Garten, Lines S5, S7, S75 Tiergarten, Lines S5, S7, S75



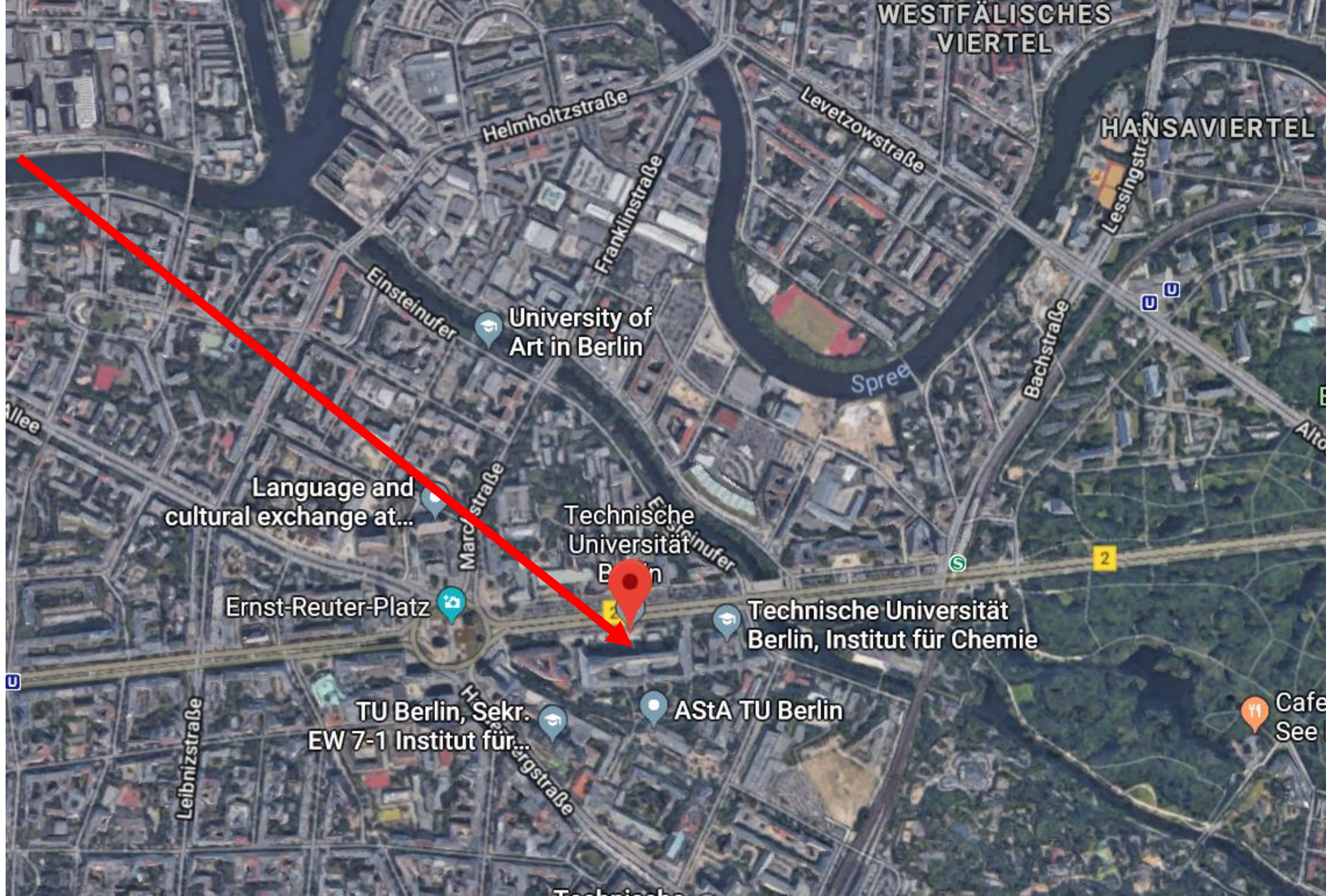
Stand: 2016



Osoite: Straße des 17. Juni 135, 10623 Berlin, Saksa



Paikka





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TU Berlin Adopts Open Access Policy

TU Berlin's Academic Senate unanimously adopted the TU Berlin Open Access Policy. The policy strengthens the university's commitment to Open Access to research publications and data and presents recommendations for TU members on Open Access publishing. With the signing of the Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities back in August 2016, TU Berlin confirmed Open Access as one of its strategic goals. The aim is to make scientific and research publications and findings freely available to everyone around the globe.



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Studying at TU Berlin

The internationally renowned TU Berlin is located in Germany's capital city at the heart of Europe. It offers a broad range of degree programs in seven faculties: over 40 Bachelor's programs or State examination



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Guest student program for asylum seekers at TU Berlin

You are entitled to study in your home-country? You have already studied at home or even hold a degree? In these cases our guest student program is your way into TU Berlin.

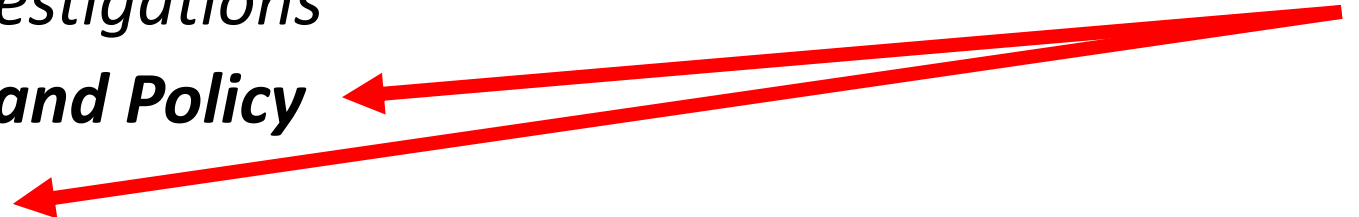


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<http://www.tu-berlin.de>

Sessiot (varmistuvat 14.2. !!!) **ARVIO**

- *TP Terrestrial Planets*
- *LSE Lunar Science and Exploration*
- *OPS Outer Planet Systems*
- *MG Magnetospheres and Space Physics*
- *MT Missions, Techniques and Industry*
- *EX Exoplanets and Origins*
- *AB Astrobiology*
- *SB Small Bodies*
- *LF Laboratory and Field Investigations*
- ***OEP Outreach, Education, and Policy***
- ***AM Amateur Astronomy***



Sessiot

Sessiot ovat:

- Posterisessioita
 - Posterijuliste joka esittelee toimintaa
 - Yksi ilta, noin 3 tuntia, jolloin posterilla esitellään posterin sisältöä
- Puhesessioita
 - Puhe
 - Noin 10-15 min sisältäen kysymykset

Esimerkki posterista

- **Organized network for supporting the amateur–scientist co-operation in Finland;** V. Mäkelä, H. Haukka, A. Oksanen and V-P. Hentunen; European Planetary Science Congress 2014; Vol. 9, EPSC2014-168, 2014 [[PDF](#)]; Poster
- **Pro-Amateur Observatories as a Significant Resource for Professional Astronomers – Taurus Hill Observatory;** H. Haukka, V-P. Hentunen, M. Nissinen, T. Salmi, H. Aartolahti, J. Juutilainen and H. Vilokki; European Planetary Science Congress 2013; Vol. 8, EPSC2013-443, 2013 [[PDF](#)]; Poster
- **Amateur astronomy by Taurus Hill Observatory;** T. Salmi, V-P. Hentunen; European Week of Astronomy and Space Science (EWASS) 2013, Turku, Finland; Oral talk
- **Transit Observations in Taurus Hill Observatory;** H. Haukka, V-P. Hentunen, M. Nissinen, T. Salmi, H. Aartolahti, J. Juutilainen and H. Vilokki; European Planetary Science Congress 2012; Vol. 7 EPSC2012-169 2012 [[PDF](#)] [[Kuvia tapahtumasta](#)]; Poster
- **Ground Based Support for Exoplanet Space Missions**, Oral presentation; H. Haukka, V-P. Hentunen, M. Nissinen, T. Salmi, H. Aartolahti, J. Juutilainen and H. Vilokki; EPSC-DPS Joint Meeting 2011; Vol. 6, EPSC-DPS2011-683, 2011 [[PDF](#), tiivistelmä] [[Kuvia tapahtumasta](#)]; Oral talk
- **Small telescope stellar object light curve measurements;** H. Haukka, V-P. Hentunen, M. Nissinen, T. Salmi and H. Aartolahti; European Planetary Science Congress 2010; Vol. 5, EPSC2010-170, 2010 [[PDF](#)]; Poster
- **Small Telescope Exoplanet Observations in Taurus Hill Observatory;** V.-P. Hentunen, M. Nissinen, H. Haukka and H. Aartolahti; European Planetary Science Congress 2009; Vol. 4, EPSC2009-119, 2009 [[PDF](#)]; Poster

Amateur observations of exoplanets in Finland: History and recent activities

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Exoplanets have been observed by Finnish amateur astronomers already 17 years. Recently there are three active observers or observing groups, but the interest in photometric observations of exoplanet transits is increasing in Finland.

1. History

The first exoplanet transit observation in Finland was made by Jyväskylän Sirius observing group: Marko Moilanen, Jalo Ojanperä, Jouni Sorvali, Aki Id and Arto Oksanen on 16 September, 2000 [1]. The observation of HD 209458 exoplanet transit was made with 16-inch Meade telescope and SBIG ST7E CCD camera in Nyräla Observa-tory in Central Finland. The observation was confirmed by Geoffrey Marcy from University of California at Berkeley.

This was also the first amateur observation of exoplanet transits in the world. It started the rising interest on exoplanet observing among Finnish amateurs.

The observation was also one reason why NASA and Berkeley scientists founded Transitsearch.org network [2] for coordinating amateur exoplanet observations. Sirius group continued collaboration with newly founded Transitsearch.org.

Taurus Hill Observatory (THO) began the scientific research campaigns by observing supernovae and making the first amateur supernova discoveries in Finland. After success in supernova discoveries, THO concentrated mainly on the light curve measurements, especially exoplanets. First contacts between THO and the scientific com-

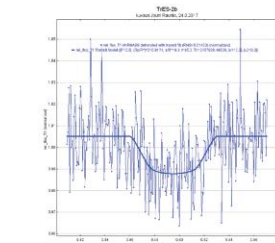


Figure 3. Exoplanet transit of TrES-2b on Mar 24, 2017 by Tampereen Ursa Team: Jouni Raunio, Tomi Hyvönen and Matti Koskinen.

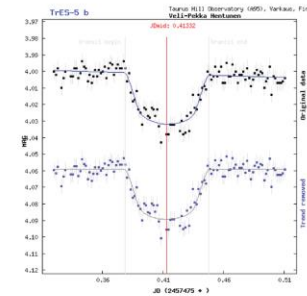


Figure 4. Exoplanet transit of TrES-5b on Mar 27, 2016 by Veli-Pekka Hentunen / Taurus Hill Observatory / TRESCA.

munity were with Gregory Laughlin [7] and his research partners in 2007. As the light curve measurements were in the high scientific level, THO further initiated research partnerships e.g. with TRESCA [5] and latest with the Pulkovo Observatory (Russia) [6]. Nowadays THO has observed and measured over 50 exoplanet light curves.

2. Recent activities

Currently there are three amateur groups observing exoplanet transits in Finland.

Petri Kehusmaa is collaborating with KELT (Kilo-degree Extremely Little Telescope) observation system [3]. The main goals for this cooperation are:

- multiband photometric observations of exoplanet candidates found by KELT wide field cameras and contributing light curve data to research team
- find new exoplanets

During the winter 2016–2017 Taurus Hill Observatory has focused on the Pulkovo Observatory exoplanet research campaign by observing the carefully pre-selected stars [8]. The aim of the observation campaign is to find out about the orbiting times of potential exoplanets around their central star and the magnitude of brightness change in the central star caused by them. This campaign will continue on the next observing seasons.

Observing team of Astronomical Association Tampereen Ursa: Jouni Raunio, Tomi Hyvönen, Matti Koskinen and Kari Nyman have observed several transits of well-known exoplanets during 2015–2017 in Tampere area.

References

- [1] http://www.ursa.fi/yhd/sirius/HD209458/HD209458_eng.html
- [2] Transitsearch.org, <http://www.transitsearch.org/>
- [3] KELT-south, <https://my.vanderbilt.edu/keltsouth/>
- [4] CONTRAST, <http://www.hotmol.eu/index.shtml>
- [5] TRESCA, <http://var2.astro.cz/EN/>
- [6] Pulkovo Observatory, <http://www.gao.spb.ru/english/index.html>
- [7] <https://www.ucl.ac.uk/~laugh/>
- [8] EPSC 2017 poster; EPSC2017-71

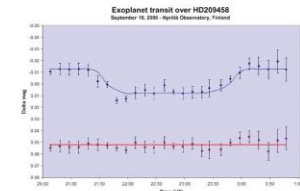
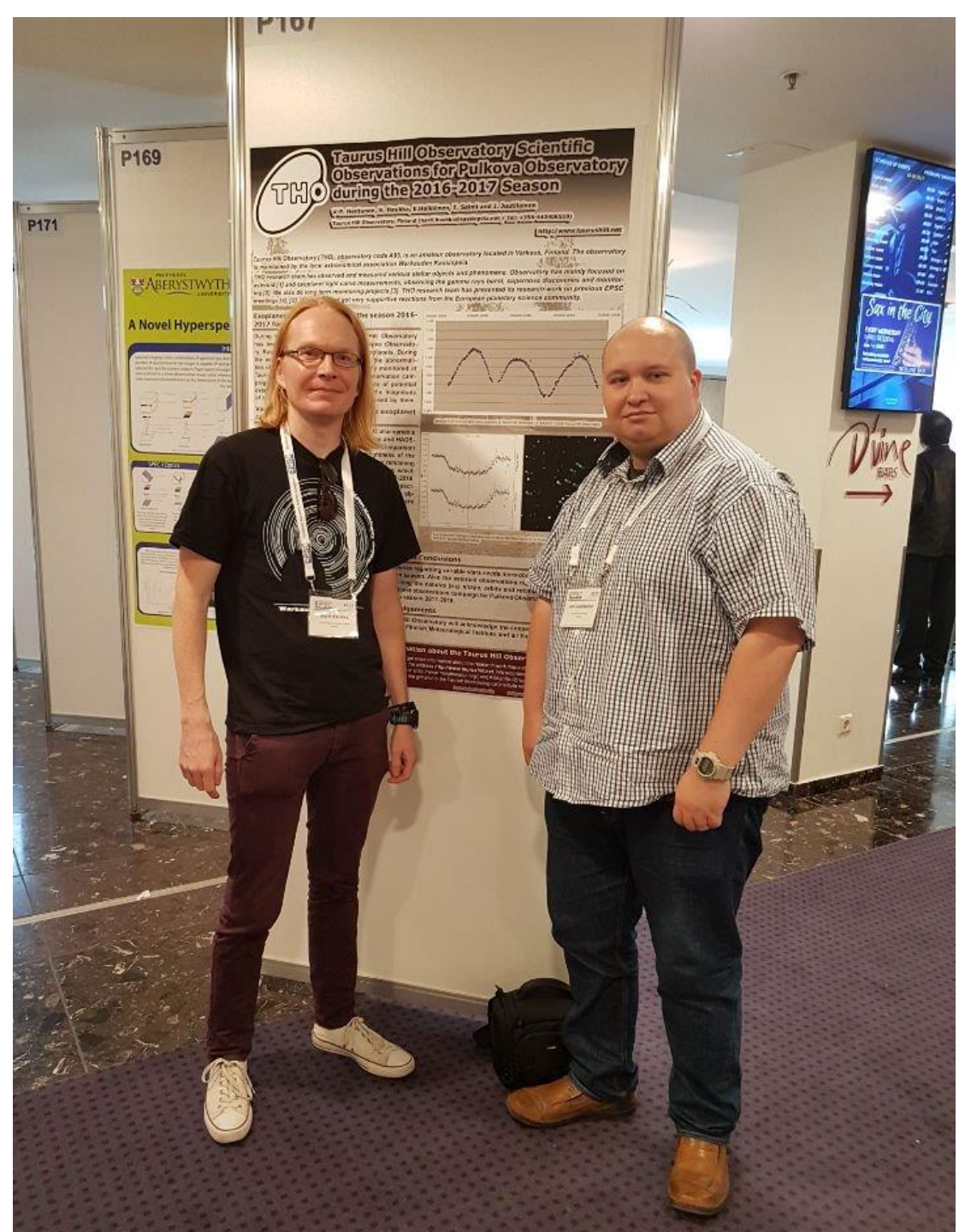


Figure 1. The first amateur observation of exoplanet transit in the world on HD 209458 on Sep 16, 2000 by Jyväskylän Observing Group.



Figure 2. Transit TrES-1 on Nov 25, 2004 by Arto Oksanen.





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Imprint

Aims & scope

The intention of the European Planetary Science Congress 2018 is to cover a broad area of science topics related to planetary science and planetary missions. The programme of the congress will contain oral and poster sessions, and it will emphasize workshops and panel discussions in order to have a strong interaction between the participants.

The Scientific Organizing Committee of the EPSC2018 invites all planetary scientists to participate in the congress, submit contributions to the topical sessions and share their research with colleagues and friends. We look forward to welcoming you in Berlin, Germany.

Latest information

- Call-for-sessions deadline extended to **14 February 2018**

<http://www.epsc2018.eu/>



Date	Task	Group
11 January – 14 February 2018	Call-for-sessions: public can suggest sessions in the various Programme Groups	Community
15–28 February 2018	Session Programme Finalization based on the Call-for-Sessions suggestions	SOC
01 March 2018	Call-for-abstracts, start of the abstract submission	Community
03 May 2018	Abstract submission deadline	Community
04–16 May 2018	Convener Part 1 + 2 (SOI + II) Convener Part 1: acceptance, rejection, transfer of abstracts to other sessions (no oral/poster selection at this stage), additional upload of abstracts by conveners are possible Convener Part 2: Session Tagging, i.e. conveners communicate wishes and requirements regarding room size, time blocks, no-overlap requests, to SOC	Conveners
17–23 May 2018	PCI (SOC Part 1): evaluation of rejected and unassigned contributions, finalization of sessions that have not completed Convener Part 1 task (SOI)	SOC
24 May 2018	Letter of acceptance (information to authors if their abstract is accepted and in which session, no information about oral or poster decision)	Copernicus
25–31 May 2018	PCII (SOC Part 2): assigning of time blocks, rooms, days and exact session times to each session on the basis of convener requests and consistency for the programme	SOC
01–14 June 2018	Convener Part 3 (SOIII): oral/ poster selection (according to assigned timeblocks), ordering of presentations	Conveners
15–21 June 2018	PCIII (SOC Part 3): finalization of programme	SOC
22 June 2017	Letter of schedule (information to authors with precise information regarding session, time and length of presentation, etc.) Upload of conference programme on website	Copernicus
28 June 2018	Deadline for presenter registration	Authors
13 July 2018	Deadline for information to be included in programme book (welcome text, adverts, etc.)	SOC
15 August 2018	Deadline for letter of invitation requests	Community
31 August 2018	Deadline for daily programme	Conveners
16–21 September 2018	European Planetary Science Congress 2018	Community

Keneen yhteyttä?

- Allekirjoittaneeseen harri.haukka@fmi.fi
- Sessioiden pitäjiin → yhteystiedot
- LOC
 - Copernicus Meetings, Mario Ebel, epsc2018@copernicus.org