Publications

Peer-reviewed Publications

FIRST- OR SECOND-AUTHORED

1. ***Szulágyi, J.***, Cilibrasi, M., Mayer, L.: In situ formation of Icy Moons of Uranus and Neptune (ApJL, 868, 13; 2018)
2. Pineda, J., ***Szulágyi, J.*** et al.: High-Resolution ALMA Observations of HD 100546: Asymmetric Circumstellar Ring, Circumplanetary Disk Upper Limits (ApJ accepted, arXiv181110365; 2018)
3. Drazkowska, J. & ***Szulágyi, J.***: Dust evolution and satellitesimal formation in circumplanetary disks (ApJ, 866, 142; 2018)
4. *Cilibrasi, M., ***Szulágyi, J.*** et al.: Satellites Form Fast & Late: a Population Synthesis for the Galilean Moons (MNRAS, 480, 4355; 2018)
5. ***Szulágyi, J.***, van der Plas, G., Meyer, M. R. et al.: Observability of Forming Planets and their Circumplanetary Disks I. – Parameter Study for ALMA (MNRAS 473, 3573; 2018)
6. ***Szulágyi, J.***: Effects of the Planetary Temperature on the Circumplanetary Disk and on the Gap (ApJ, 842, 103; 2017)
7. ****Szulágyi, J.***, Mayer, L., Quinn, T.: Circumplanetary disks around young giant planets: a comparison between core-accretion and disk instability (MNRAS 464, 315; 2017)
8. ****Szulágyi, J.*** & Mordasini, C.: Thermodynamics of Giant Planet Formation: Shocking Hot Surfaces on Circumplanetary Disks (MNRAS Letters 465, 64, 2017)
9. ***Szulágyi, J.***, Masset, F., Lega, E. et a.l: Circumplanetary disc or circumplanetary envelope? (MNRAS, 460, 2853; 2016)
10. ***Szulágyi, J.***, Morbidelli, A., Crida, A., Masset, F.: Accretion of Jupiter-mass Planets in the Limit of Vanishing Viscosity (ApJ, 782, 65; 2014)
11. Morbidelli, A., ***Szulágyi, J.***, et al.: Gap opening by giant planets in three-dimensional low-viscosity proptoplanetary disks (Icarus, 232, 266; 2014)
12. ***Szulágyi, J.***, Pascucci, I., Ábrahám, P., Apai, D., Bouwman, J., Moór, A.: Observational Constraints on the Stellar Radiation Field Impinging on Transitional Disk Atmospheres (ApJ, 759, 47; 2012)
13. ***Szulágyi, J.***, Kovács, G., Welch, D. L.: Application of the Trend Filtering Algorithm on the MACHO Database (A&A, 500, 917; 2009)

CO-AUTHORED

14. *Benítez-Llambay, P., Masset F., Koenigsberger, G., ***Szulágyi, J.***: Planet heating as a safety net against inward migration of planetary cores (Nature, 520, 63; 2015)
15. Gaurufi et al.: Evolution of protoplanetary disks from their taxonomy in scattered light: spirals, rings, cavities, and shadows (A&A, 620, 94; 2018)
16. Perez, S., Dunhill, A., Casassus, S., Roman, P., ***Szulágyi, J.***: et al.: Planet Formation Signposts: Observability of Circumplanetary Disks via Gas Kinematics (ApJ Letters, 811, 5; 2015)
17. Chauvin, G. et al.: Discovery of a warm, dusty giant planet around HIP65426 (A&A, 605L, 9; 2017)

18. D'Orazi, V. et al.: Mapping of shadows cast on a protoplanetary disc from a close binary system (Nature Astronomy, 172; 2018)

19. Cugno, G. et al.: A search for accreting young companions embedded in circumstellar disks: High-contrast Hα imaging with VLT/SPHERE (A&A accepted, arXiv:1812.06993; 2019)

20. Avenhaus, H. et al.: Exploring Dust around HD 142527 down to 0."025 (4 au) Using SPHERE/ZIMPOL (AJ, 154, 33; 2017)

21. Pohl, A. et al.: New constraints on the disk characteristics and companion candidates around T Cha with VLT/SPHERE (A&A, 605, 34; 2017)

22. Pohl, A. et al.: The circumstellar disk HD 169142: gas, dust and planets acting in concert? (ApJ, 850, 52; 2017)

23. Sissa, E. et al.: New disk discovered with VLT/SPHERE around the M star GSC 07396-00759 (A&A Letters, 613L, 6; 2018)

24. Schmid, H. M. et al.: SPHERE / ZIMPOL observations of the symbiotic system R Aqr. I. Imaging of the stellar binary and the innermost jet clouds (A&A, 602, 53; 2017)

25. Engler, N. et al.: The HIP 79977 debris disk in polarized light (A&A 607, 90; 2017)

26. Mékarnia, D. et al.: Transiting planet candidates with ASTEP400 at Dome C, Antarctica (MNRAS, 463, 45; 2016)

27. Lega, E., Morbidelli, A., Bitsch, B., Crida, A.,***Szulágyi, J.***: Outwards migration for planets in stellar irradiated 3D discs (MNRAS, 452, 1717; 2015)

28. Moór, A. et al.: Unveiling new members in five nearby young moving groups (MNRAS, 435, 1376; 2013)

29. Abe, L. et al.: The secondary eclipses of WASP-19b as seen by the ASTEP 400 telescope from Antarctica (A&A, 553, 49; 2013)

30. Moór, A. et al.: A Resolved Debris Disk around the Candidate Planet-hosting Star HD 95086 (ApJ, 775, 51; 2013)

31. Lagrange A. M., et al.: Post conjunction detection of β Pictoris b with VLT/SPHERE (A&A accepted, arXiv:1809.08354; 2018)

Under Review

1. ***Szulágyi, J.***, Dullemond C. P., Pohl A., Quanz S. P.: Observability of Forming Planets and their Circumplanetary Disks II. – SEDs and Near-Infrared Fluxes

Conference Proceedings

1. Crouzet, N., Guillot, T., Mékarnia, D., ***Szulágyi, J.***, et al.: ASTEP South: a first photometric analysis (IAU Symposium, 288, 226; 2013)

2. Rivet, J.-P. et al.: Time domain astronomy from Dome C: results from ASTEP (IAU Symposium, 288, 218; 2013)

3. Abe, L. et al.: Two years of polar winter observations with the ASTEP400 telescope (Ground-based and Airborne Telescopes IV. Proceedings of the SPIE, 8444, 84445I; 2012)

* items marked with asterisk resulted in press releases, more information:
`http://people.phys.ethz.ch/~judits/#!/page_Press`