

András Gáspár

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Research Areas

Circumstellar Disks, HST and JWST High-Contrast Imaging, Infrared detectors, Theoretical modeling, Exozodi, Extrasolar planets, Variable stars, Open clusters, ISM, HPC/GPU programming

Appointments

2017 - now Assistant Research Professor, Steward Obs., The University of Arizona
2017 - now Adjunct Faculty, Pima Community College (secondary job to advance teaching skills)
2014 - 2017 Senior Research Associate, Steward Obs., The University of Arizona
2011 - 2014 Postdoctoral Researcher, Steward Obs., The University of Arizona
2006 - 2011 Research Assistant, Steward Obs., The University of Arizona
2005 Research Assistant, UKIDSS/UKIRT, University of Leeds

Education

2011 Ph.D., Astronomy, Steward Observatory, The University of Arizona (*Advisor: Dr. George H. Rieke*)
Thesis: "Observations and models of infrared debris disk signatures and their evolution"
2006 B.Sc., Astronomy, University of Szeged, Hungary (*Advisor: Dr. Zoltán Balog*)

Proposals/Grants (PI/Co-PI[†]) - Total: \$798k

2021[†] *The Ultra Violet Output of Sgr A**; 10 hours on JWST/MIRI-MRS (\$156k)
2019 *Advanced Debris Disk Modeling for the Next Decade*; NASA/XRP grant (\$328k)
2019 *Imaging planetary perturbations in the epsilon Eridani debris disk*; 8 orbits on HST/STIS (\$113k)
2019 *Resolving the Asteroid-belt of the Fomalhaut planetary system*; 8 orbits on HST/STIS (\$113k)
2012 *Pointing the Finger: Calibrating the Hidden Features of STIS and Enabling New Coronagraphy at Separations of 0.15''*; 6 orbits on HST/STIS (\$88k)
2011 *Observing Young Debris Disks with SPIRE*; 2.2 hours of OT2 time with Herschel

Ongoing Current Research

- JWST/NIRCam GTO Scattered Light Debris Disk program (PID 1183) lead (28 hours in Cy 1 and 28 hours in Cy 2)
- JWST/MIRI GTO Archetypical Debris Disks program (PID 1193 - MIRI part) lead (25 hours)
- JWST/MIRI Science Instrument team member - MIRI Cross artifact analysis and modeling
- D3D: GPU based 3D Debris Disk model development program lead (NASA/XRP)

Proposals/Grants (Co-I)

2021 *Caught in the act of dispersing their disks? MIRI MRS can tell*; 18.6h JWST - PI: I. Pascucci (\$237k)
2021 *Icy Kuiper Belts in Exoplanetary Systems.*; 32h JWST - PI: C. Chen (\$324k)
2021 *A deep and complete characterization of the Vega debris disk in scattered light*; 32 orbits HST/STIS - PI: S. Wolff (\$172k)
2020 *Studying the Habitable Zones of Nearby Main Sequence Stars with Precision Nulling Interferometry*; NASA XRP grant - PI: Steve Ertel (\$510k)
2016 *Debris Disk Variability - Exploring the Diverse Outcomes of Large Collisions during the Eras of*

	<i>Oligarchic and Chaotic Growth</i> ; NASA ADAP (\$200k)
2016	<i>Probing Terrestrial Planet Formation with Extreme Disk Variability</i> ; 120 h w/ <i>Spitzer</i>
2015	<i>Contrasting Exoplanetary Systems by Resolving the Debris Disk around Denebola</i> ; 8.5 h with <i>ALMA</i>
2014	<i>Earths in Other Solar Systems: Toward forming and discovering planets with biocritical ingredients</i> NASA Astrobiology Institute proposal; PI: D. Apai (\$7 million)
2014	<i>Decoding Debris System Substructures: Imprints of Planets/Planetesimals and Signatures of Extrinsic Influences on Material in Ring-Like Disks</i> ; 40 orbits w/ HST/STIS; PI: G. Schneider (\$280k)
2014	<i>Pushing to 8 AU in the archetypal protoplanetary disk of TW Hya</i> ; 8 orbits w/ HST/STIS; PI: J. Debes
2010	<i>Diversity in Debris Disks: Snapshots of Planetary System Evolution</i> 109h with <i>Spitzer</i> (\$266k)
2009	<i>The Master Sample of Spitzer Debris Disk Measurements</i> ; 103h w/ <i>Spitzer</i> (\$330k)

Published software (on GitHub)

- **DiskDyn**: GPU/CUDA based N-body code to calculate the dynamical evolution of planetesimals and dust, taking into account stellar radiative forces. Produces realistic dust scattered light and thermal emission images and also full SEDs.
- **GimMIRI**: GPU/CUDA based code to calculate the internal diffraction within the MIRI detectors (cross artifact), using Quantum-Electrodynamics theory.

Technical skills

High-level proficiency: UNIX and Mac system management, C, CUDA, shell, awk, IRAF, \LaTeX , cfitsio;
 Median-level proficiency: idl, python

Teaching/Public Outreach

2023	ASTR 170B1 - Exploring the Universe, UofA; scheduled to teach our large GenEd course in the Spring
2017 - now	AST101IN: Solar System (hybrid and online); total of 18 classes at Pima Community College
2009 - 2010	TA for AST202: Life in the Universe & ASTR250: Fundamentals of Astronomy, The University of Arizona

Selected Talks/Meetings

2020	Extrasolar Planet Disk Session Talk, AAS 235, Honolulu, HI
2020	COPAG Splinter Session Talk, AAS 235, Honolulu, HI
2019	Current and future trends in debris discs II, Budapest, Hungary
2016	National Capital Area Disks Meeting 2016 (NCAD 2016)
2016	JWST GTO meeting, Victoria, CA
2014	<i>Search for Life Beyond the Solar System. Exoplanets, Biosignatures & Instruments.</i> , Tucson, AZ
2013	5 th Subaru International Conference, Kona, HI

Services

- Faculty contact for the Steward Obs. Computer Support Group; Hiring Committee Lead for the members of our new CSG.
- NASA ROSES ADAP Review Committee
- Referee for The Astrophysical Journal, The Astronomical Journal, and Astronomy & Astrophysics
- Hungarian translation of Disk Detective, NASA citizen science project

Observing Experience

60 cm Schmidt (Konkoly Obs., MTA; 3 weeks), 1 m RCC (Konkoly Obs., MTA; 2 weeks), MMT (2 nights), Bok 2.3 m (2 nights), Mt. Bigelow 48" (2 nights), HST (22 orbits), LBT (5 nights), JWST (over 80 hours)

Publications

Citations of refereed articles (First Authored/total): 338/1546

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Refereed First Authored Papers

- *1. *The Quantum Efficiency and Diffractive Image Artifacts of Si:As IBC mid-IR Detector Arrays at 5-10 μm : Implications for the JWST/MIRI Detectors*,
Gáspár, András; Rieke, George H.; Guillard, Pierre; Dicken, Daniel; Gastaud, René; Alberts, Stacey; Morrison, Jane; Ressler, Michael E.; Argyriou, Ioannis; Glasse, Alistair
2021, *Publications of the Astronomical Society of the Pacific*, **133**, 4504G
- *2. *New HST data and modeling reveal a massive planetesimal collision around Fomalhaut*,
Gáspár, András and Rieke, George H.
2020, *Proceedings of the National Academy of Sciences*, **117**, 9712G
- *3. *The Correlation Between Metallicity and Debris Disk mass*,
Gáspár, András, Rieke, George, and Ballering, Nicholas
2016, *The Astrophysical Journal*, **826**, 171G
- *4. *The Herschel Cold Debris Disks: Confusion with the Extragalactic Background at 160 μm* ,
Gáspár, András, and Rieke, George
2014, *The Astrophysical Journal*, **784**, 33G
- *5. *The Collisional Evolution of Debris Disks*,
Gáspár, András, Rieke, George, and Balog, Zoltan
2013, *The Astrophysical Journal*, **768**, 25
- *6. *Modeling Collisional Cascades in Debris Disks: Steep Dust-Size Distributions*,
Gáspár, András, Psaltis, Dimitrios, Özel, Feryal, Rieke, George, and Cooney, A.
2012, *The Astrophysical Journal*, **754**, 74G
- *7. *Modeling Collisional Cascades in Debris Disks: The Numerical Method*,
Gáspár, András, Psaltis, Dimitrios, Özel, Feryal, Rieke, George, and Cooney, A.
2012, *The Astrophysical Journal*, **749**, 14G
- *8. *The Low Level of Debris Disk Activity at the Time of the Late Heavy Bombardment: A Spitzer Study of Praesepe*,
Gáspár, András, Rieke, George H., Su, Kate Y. L., Balog, Zoltán, Trilling, David, Muzzerole, James, Apai, Dániel, and Kelly, Brandon C.
2009, *The Astrophysical Journal*, **697**, 1578G
- *9. *Modeling the Infrared Bow Shock at δ Velorum: Implications for Studies of Debris Disks and λ Boötis Stars*,
Gáspár, András, Su, Kate Y. L., Rieke, George H., Balog, Zoltán, Kamp, Inga, Martínez-Galarza, Juan R., and Stapelfeldt, Karl
2008, *The Astrophysical Journal*, **672**, 974G
- *10. *The first CCD photometric study of the open cluster NGC 2126*,
Gáspár, A., Kiss, L. L., Bedding, T. R., Derekas, A., Kaspi, S., Kiss, Cs., Sárneczky, K., Szabó, Gy. M., and Váradi, M.
2003, *Astronomy & Astrophysics*, **410**, 879G

White Papers

Modeling Debris Disk Evolution,

Gáspár András + 45 co-authors

Astro2020: Decadal Survey on Astronomy and Astrophysics, **51**, 3, 69

Refereed Co-Authored Papers

9. *Hiding Dust around ϵ Eridani*,
Wolff, Schuyler; **Gáspár, András**; Rieke, George H.; Ballering, Nicholas; Ygouf, Marie
2022, *The Astrophysical Journal*, submitted
10. *JWST/MIRI coronagraphic performances as measured on-sky*,
Boccaletti, A.; Cossou, C.; Baudoz, P.; Lagage, P. O.; Dicken, D.; Glasse, A.; Hines, D. C.; Aguilar, J.; Detre, O.; Nickson, B.; Noriega-Crespo, A.; **Gáspár, A.**; Labiano, A.; Stark, C.; Rouan, D.; Reess, J. M.; Wright, G. S.; Rieke, G.; Garcia Marin, M.,
2022, *Astronomy & Astrophysics*, submitted
11. *Characterization of JWST science performance from commissioning*,
Rigby, Jane et al.,
2022, NASA JWST Commissioning document
12. *Extreme Variability of the V488 Persei Debris Disk*,
Rieke, G. H.; Su, K. Y. L.; Melis, Carl; and **Gáspár, András**
2021, *The Astrophysical Journal*, **918**, 71R
13. *The HOSTS Survey: Evidence for an Extended Dust Disk and Constraints on the Presence of Giant Planets in the Habitable Zone of β Leo*,
Defrère, D. et al.,
2021, *The Astronomical Journal*, **161**, 186D
14. *Characterization of the optical properties of the buried contact of the JWST MIRI Si:As infrared blocked impurity band detectors*,
Argyriou, Ioannis; Rieke, George H.; Ressler, Michael E.; **Gáspár, András**; Vandenbussche, Bart
2020, *Proceedings of the SPIE*, **11454E**, 1PA
15. *Mid-infrared Studies of HD 113766 and HD 172555: Assessing Variability in the Terrestrial Zone of Young Exoplanetary Systems*,
Su, Kate Y. L.; Rieke, George H.; Melis, Carl; Jackson, Alan P.; Smith, Paul S.; Meng, Huan Y. A.; **Gáspár, András**,
2020, *The Astrophysical Journal*, **898**, 21S
16. *The HOSTS Survey for Exozodiacal Dust: Observational Results from the Complete Survey*,
Ertel, S. et al.,
2020, *The Astronomical Journal*, **159**, 177E
17. *The Eroding Disk of AU Mic*,
Grady, C. A.; Wisniewski, J. P.; Schneider, G.; Boccaletti, A.; **Gáspár, A.**; Debes, J. H.; Hines, D. C.; Stark, C. C.; Thalmann, C.; Lagrange, A. M.; Augereau, J. C.; Sezestre, E.; Milli, J.; Henning, Th.; Kuchner, M. J.
2020, *The Astrophysical Journal Letters*, **889L**, 21G
18. *High-fidelity Imaging of the Inner AU Mic Debris Disk: Evidence of Differential Wind Sculpting?*,
Wisniewski, John P. et al.,
2019, *The Astrophysical Journal Letters*, **883L**, 8W
19. *Extreme Debris Disk Variability: Exploring the Diverse Outcomes of Large Asteroid Impacts During the Era of Terrestrial Planet Formation*,
Su, Kate Y. L. et al.,
2019, *The Astronomical Journal*, **157**, 202S
20. *The HOSTS Survey—Exozodiacal Dust Measurements for 30 Stars*,
Ertel, Steve et al.,
2018, *The Astronomical Journal*, **155**, 194E
21. *The HR 4796A Debris System: Discovery of Extensive Exo-ring Dust Material*,
Schneider, Glenn; Debes, John H.; Grady, Carol A.; **Gáspár, András**; Henning, Thomas; Hines, Dean C.; Kuchner, Marc J.; Perrin, Marshall; Wisniewski, John P.,

- 2018, *The Astronomical Journal*, **155**, 77S
22. *What Sets the Radial Locations of Warm Debris Disks?*,
Ballering, Nicholas P.; Rieke, George H.; Su, Kate Y. L.; **Gáspár, András**,
2017, *The Astrophysical Journal*, **845**, 120B
23. *The First 40 Million Years of Circumstellar Disk Evolution: The Signature of Terrestrial Planet Formation*,
Meng, Huan Y. A., Rieke, George H., Su, Kate Y. L., **Gáspár, András**, 2017, *The Astrophysical Journal*, **836**, 34M
24. *Chasing Shadows: Rotation of the Azimuthal Asymmetry in the TW Hya Disk*,
John H. Debes, Charles A. Poteet, Hannah Jang-Condell, **András Gáspár**, Dean Hines, Joel H. Kastner, Laurent Pueyo,
Valerie Rapson, Aki Roberge, Glenn Schneider, Alycia J. Weinberger
2017, *The Astrophysical Journal*, **835**, 205D
25. *Protoplanetary and Transitional Disks in the Open Stellar Cluster IC 2395*,
Balog, Zoltan; Siegler, Nick; Rieke, G. H.; Kiss, L. L.; Muzerolle, James; Gutermuth, R. A.; Bell, Cameron P. M.; Vinkó,
J.; Su, K. Y. L.; Young, E. T.; **Gáspár, András**
2016, *The Astrophysical Journal*, **832**, 87B
26. *Deep HST/STIS Visible-light Imaging of Debris Systems around Solar Analog Hosts*,
Schneider, Glenn; Grady, Carol A.; Stark, Christopher C.; **Gáspár, András**; Carson, Joseph; Debes, John H.; Henning,
Thomas; Hines, Dean C.; Jang-Condell, Hannah; Kuchner, Marc J.; Perrin, Marshall; Rodigas, Timothy J.; Tamura,
Motohide; Wisniewski, John P.
2016, *The Astrophysical Journal*, **152**, 64S
27. *Nulling Data Reduction and On-sky Performance of the Large Binocular Telescope Interferometer*,
Defrère, D.; Hinz, P. M.; Mennesson, B.; Hoffmann, W. F.; Millan-Gabet, R.; Skemer, A. J.; Bailey, V.; Danchi, W. C.;
Downey, E. C.; Durney, O.; Grenz, P.; Hill, J. M.; McMahan, T. J.; Montoya, M.; Spalding, E.; Vaz, A.; Absil, O.; Arbo,
P.; Bailey, H.; Brusa, G.; Bryden, G.; Esposito, S.; **Gaspar, A.**; Haniff, C. A.; Kennedy, G. M.; Leisenring, J. M.; Marion,
L.; Nowak, M.; Pinna, E.; Powell, K.; Puglisi, A.; Rieke, G.; Roberge, A.; Serabyn, E.; Sosa, R.; Stapelfeldt, K.; Su, K.;
Weinberger, A. J.; Wyatt, M. C.
2016, *The Astrophysical Journal*, **824**, 66D
28. *A Comprehensive Dust Model Applied to the Resolved Beta Pictoris Debris Disk from Optical to Radio Wavelengths*,
Ballering, Nicholas P.; Su, Kate Y. L.; Rieke, George H.; **Gáspár, András**
2016, *The Astrophysical Journal*, **823**, 108B
29. *Discovery of an Inner Disk Component around HD 141569 A*,
Konishi, Mihoko; Grady, Carol A.; Schneider, Glenn; Shibai, Hiroshi; McElwain, Michael W.; Nesvold, Erika R.; Kuch-
ner, Marc J.; Carson, Joseph; Debes, John. H.; **Gáspár, András**; Henning, Thomas K.; Hines, Dean C.; Hinz, Philip
M.; Jang-Condell, Hannah; Moro-Martín, Amaya; Perrin, Marshall; Rodigas, Timothy J.; Serabyn, Eugene; Silverstone,
Murray D.; Stark, Christopher C.; Tamura, Motohide; Weinberger, Alycia J.; Wisniewski, John. P.
2016, *The Astrophysical Journal*, **818L**, 23K
30. *Magnetic Grain Trapping and the Hot Excesses around Early-type Stars*,
Rieke, G. H.; **Gáspár, András**; Ballering, N. P.
2016, *The Astrophysical Journal*, **816**, 50R
31. *First-light LBT Nulling Interferometric Observations: Warm Exozodiacal Dust Resolved within a Few AU of η Crv*,
Defrère, D.; Hinz, P. M.; Skemer, A. J.; Kennedy, G. M.; Bailey, V. P.; Hoffmann, W. F.; Mennesson, B.; Millan-Gabet,
R.; Danchi, W. C.; Absil, O.; Arbo, P.; Beichman, C.; Brusa, G.; Bryden, G.; Downey, E. C.; Durney, O.; Esposito, S.;
Gáspár, A.; Grenz, P.; Haniff, C.; Hill, J. M.; Lebreton, J.; Leisenring, J. M.; Males, J. R.; Marion, L.; McMahan, T. J.;
Montoya, M.; Morzinski, K. M.; Pinna, E.; Puglisi, A.; Rieke, G.; Roberge, A.; Serabyn, E.; Sosa, R.; Stapelfeldt, K.;
Su, K.; Vaitheeswaran, V.; Vaz, A.; Weinberger, A. J.; Wyatt, M. C.
2015, *The Astrophysical Journal*, **799**, 42D
32. *Probing the Terrestrial Regions of Planetary Systems: Warm Debris Disks with Emission Features*,
Ballering, Nicholas P.; Rieke, George H.; **Gáspár, András**
2014, *The Astrophysical Journal*, **793**, 57B
33. *The Decay of Debris Disks around Solar-type Stars*,

- Sierchio, J. M.; Rieke, G. H.; Su, K. Y. L.; **Gáspár, András**
2014, *The Astrophysical Journal*, **785**, 33S
34. *Dust formation in the ejecta of the type II-P supernova 2004dj*,
Szalai, Tamás, Vinkó, József, Balog, Zoltán, **Gáspár, András**, Block, Miwa, and Kiss, László L.
2011, *Astronomy & Astrophysics*, **527A**, 61S
35. *HST and Spitzer Observations of the HD 207129 Debris Ring*,
Krist, John E., Stapelfeldt, Karl R., Bryden, Geoffrey, Rieke, George H., Su, Kate Y. L., Chen, Christine C., Beichman, Charles A., Hines, Dean C., Rebull, Luisa M., Tanner, Angelle, Trilling, David E., Clampin, Mark, and **Gáspár, András**
2010, *Astronomical Journal*, **140**, 1051K
36. *Spitzer/IRAC-MIPS Survey of NGC 2451 A and B: Debris Disks at 50-80 Million Years*,
Balog, Zoltán, Kiss, László L., Vinkó, József, Rieke, George H., Muzerolle, James, **Gáspár, András**, Young, Erick T., and Gorlova, Nadya
2009, *The Astrophysical Journal*, **698**, 1989B
37. *Infrared Emission by Dust Around lambda Bootis Stars: Debris Disks or Thermally Emitting Nebulae?*,
Martínez-Galarza, Juan R., Kamp, Inga, Su, Kate Y. L., **Gáspár, András**, Rieke, George H., and Mamajek, Erik E.
2009, *The Astrophysical Journal*, **694**, 165M
38. *The UKIDSS Galactic Plane Survey*,
Lucas, P. W., Hoare, M. G., Longmore, A., Schröder, A. C., Davis, C. J., Adamson, A., Bandyopadhyay, R. M., de Grijs, R., Smith, M., Gosling, A., Mitchison, S.; **Gáspár, A.**, Coe, M., Tamura, M., Parker, Q., Irwin, M., Hambly, N., Bryant, J., Collins, R. S., Cross, N., Evans, D. W., Gonzalez-Solares, E., Hodgkin, S., Lewis, J., Read, M., Riello, M., Sutorius, E. T. W., Lawrence, A., Drew, J. E., Dye, S., and Thompson, M. A.
2008, *The Monthly Notices of the Royal Astronomical Society*, **391**, 136L
39. *Lynds 1622: a nearby star-forming cloud projected on Orion B?*,
Kun, M., Balog, Z., Mizuno, N., Kawamura, A., **Gáspár, A.**, Kenyon, S. J., and Fukui, Y.
2008, *The Monthly Notices of the Royal Astronomical Society*, **391**, 84K
40. *Photoevaporation of Protoplanetary Disks*,
Balog, Zoltán, Rieke, George H., Muzerolle, James, Bally, John, Su, Kate Y. L., Misselt, Karl, and **Gáspár, András**
2008, *The Astrophysical Journal*, **688**, 408B
41. *Low-mass star formation in Lynds 1333*,
Kun, M., Nikolić, S., Johansson, L. E. B., Balog, Z., and **Gáspár, A.**
2006, *The Monthly Notices of the Royal Astronomical Society*, **371**, 732K
42. *The first year of SN 2004dj in NGC 2403*,
Vinkó, J., Takáts, K., Sárneczky, K., Szabó, Gy. M., Mészáros, Sz., Csorvási, R., Szalai, T., **Gáspár, A.**, Pál, A., Csizmadia, Sz., Kóspál, A., Rácz, M., Kun, M., Csák, B., Fűrész, G., DeBond, H., Grunhut, J., Thomson, J., Mochnacki, S., and Koktay, T.
2006, *The Monthly Notices of the Royal Astronomical Society*, **369**, 1780V
43. *A Near-Infrared (JHK) Survey of the Vicinity of the HII Region NGC 7538: Evidence for a Young Embedded Cluster*,
Balog, Z., Kenyon, S. J., Lada, E. A., Barsony, M., Vinkó, J., and Gáspár, A.
2004, *The Astronomical Journal*, **128**, 2942B

Conference abstracts and proceedings

- *1. *The JWST Debris Disk Spatially Resolved Imaging GTO Programs*,
2020, Talk presented at *American Astronomical Society meeting 235*, Honolulu, HI
- *2. *The Collisional Evolution of Debris Disks*,
2014, poster presented at *Search for Life Beyond the Solar System. Exoplanets, Biosignatures & Instruments.*, Tucson, AZ
- *3. *The Collisional Evolution of Debris Disks*,
2013, poster presented at *5th Subaru International Conference*, Kona, HI

- *4. *Debris Disk Time Evolution - Connecting Observations with Theory*,
2013, talk presented at AAS #221, Long Beach, CA
- *5. *The Collisional Evolution of Debris Disks*,
2012, talk presented at the *National Capital Area Disks Meeting*, STScI, Baltimore, MD
- *6. *A New Numerical Model of Collisional Cascades in Debris Disks*,
Gáspár, András, Psaltis, Dimitrios, Özel, Feryal, Rieke, George, and Cooney, A.
2011, poster presented at *Exploring Strange New Worlds*, Flagstaff, AZ
- 7. *The Master Sample of Spitzer Debris Disk Measurements*,
Su, Kate Y. L., Rieke, G., Stapelfeldt, K., Bryden, G., Werner, M., Plavchan, P., Trilling, D., **Gáspár, A.**, and Morales, F.
2010, *American Astronomical Society, AAS Meeting #215*
- *8. *False Signs of Debris Disks*,
Gáspár, András, Su, Kate Y. L., Rieke, George H., Balog, Zoltán, Mamajek, Eric, Kamp, Inga, Martínez-Galarza, Juan R., Stapelfeldt, K.
2008, poster presented at *New Light on Young Stars: Spitzer's View of Circumstellar Disks*, Pasadena, CA
- 9. *λ Boötis stars: Current status and new insights from Spitzer*,
Kamp, I., Martínez-Galarza, J. R., Paunzen, E., Su, K. Y. L., **Gáspár, A.**, and Rieke, G. H.
2008, *Contributions of the Astronomical Observatory Skalnaté Pleso*, vol. 38, no. 2, p. 147-156
- *10. *Preliminary Results on Newly Discovered Embedded Clusters*,
Gáspár, András, Balog, Zoltán, Makai, Zoltán, Vinkó, József, and Kenyon, Scott
2005, *Cores to Clusters: Star Formation with Next Generation Telescopes*, Porto, Portugal, p. 209
- *11. *A Variable Star Survey of the Open Cluster NGC 2126*,
Gáspár, A., Kiss, L. L., Derekas, A., Bedding, T. R., Kaspi, S., Kiss, C., Sárneczky, K., Szabó, G. M., and Váradi, M.
2004, *Communications in Astroseismology*, **145**, 70
- 12. *A Variable Star Survey of the Open Cluster NGC 2126*,
Derekas, A., Kiss, L. L., Bedding, T. R., **Gáspár, A.**, Sárneczky, K., Szabó, Gy. M., Váradi, M., Kaspi, S., and Kiss, Cs.
2004, *Variable Stars in the Local Group, IAU Colloquium 193*, New Zealand, ASP Conference Proceedings, Vol. 310, p. 162