

DEOKKEUN AN 안덕근

CURRICULUM VITAE

EWHA WOMANS UNIVERSITY
DEPARTMENT OF SCIENCE EDUCATION
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EMPLOYMENT:

- Professor in Astronomy, DEPARTMENT OF SCIENCE EDUCATION, EWHA WOMANS UNIVERSITY, *March 2022 – Present*
- Assistant/Associate Professor, DEPARTMENT OF SCIENCE EDUCATION, EWHA WOMANS UNIVERSITY, *March 2010 – February 2022*
- DEPARTMENT CHAIR, DEPARTMENT OF SCIENCE EDUCATION, EWHA WOMANS UNIVERSITY, *August 2018 – July 2020*
- Postdoctoral Scholar, CALIFORNIA INSTITUTE OF TECHNOLOGY, INFRARED PROCESSING AND ANALYSIS CENTER (IPAC), *September 2008 – February 2010*
- Presidential Graduate Fellow, DEPARTMENT OF ASTRONOMY, OHIO STATE UNIVERSITY, *January 2008 – August 2008*
- Graduate Research/Teaching Assistant, DEPARTMENT OF ASTRONOMY, OHIO STATE UNIVERSITY, *July 2002 – December 2007*
- REPUBLIC OF KOREA AIR FORCE, discharged as a 1st Lieutenant, *March 1999 – July 2002*

EDUCATION:

- **Ph.D.** in Astronomy, DEPARTMENT OF ASTRONOMY, THE OHIO STATE UNIVERSITY, *August 2008*
Title: Improving the Local Distance Scale from Empirically Calibrated Stellar Isochrones
Supervisor: Prof. Donald M. Terndrup
- B.A. in Astronomy, YONSEI UNIVERSITY, Seoul, Korea, *February 1999*

AWARDS AND FELLOWSHIPS:

- Excellence for Teaching Award, Ewha Womans University, *2021*
- Prize for Academic Excellence, Ewha Womans University, *2013 & 2014*
- Young SDSS Astronomer Travel Assistance Award, Astrophysical Research Consortium, *2008*
- Presidential Fellowship, The Ohio State University, *2008*
- Allan Markowitz Graduate Award for Excellence in Observational Astronomy, The Ohio State University, *2007*
- University Scholarship, Yonsei University, Seoul, Korea, *1997 & 1998*

CURRENT RESEARCH TOPICS:

- Formation and evolution of the Galactic halo
- Photometric metallicity mapping of the Milky Way Galaxy
- Observational constraints on theoretical stellar models
- Star formation in the Central Molecular Zone at the Galactic Center

SUPERVISION OF GRADUATE STUDENTS:

- **Yewon Kang**, Department of Science Education, Ewha Womans University, *since 2022*
- **Yeji Kim**, Department of Science Education, Ewha Womans University, *since 2022*
- **Dayoung Pyo**, Department of Science Education, Ewha Womans University, *since 2021*
- **Jiwon Han**, Department of Science Education, Ewha Womans University, *since 2020*
- **Dajeong Jang**, M.S. 2020, "Near Infrared Spectroscopy of H₂O and CH₃OH Ice in the Central Molecular Zone"
- **Jiehye Hong**, M.S. 2019, "Near Infrared Spectroscopic Observations of Candidate Planetary Nebulae toward the Galactic Center"
- **Jaein Jung**, M.S. 2017, "Medium Resolution Spectroscopy of Red Giant Branch Stars in Omega Centauri"
- **Yeseul Lim**, M.S. 2017, "Calibration of stellar isochrones for G- and K-type dwarfs in the solar neighborhood based on high-resolution spectra and distance to NGC 1866"
- **Jiyoun Lee**, M.S. 2016, "Mid-Infrared Spectroscopic Properties of Polycyclic Aromatic Hydrocarbons in the Central Molecular Zone"
- **Bokyoung Kim**, M.S. 2015, "Spectroscopic Survey of G and K Type Dwarfs in the Hipparcos Catalog"
- **Hyein Yu**, M.S. 2014, "Galactic Globular Clusters in the Sloan Digital Sky Survey: Fiducial Sequences for Horizontal Branch Stars"

REFEREED JOURNAL ARTICLES (MOST RECENT FIRST):

1. **A Blueprint for the Milky Way's Stellar Populations. V. 3D Local Dust Extinction,**
An, D., Beers, T. C., Chiti, A.,
Astrophysical Journal Supplement Series, 272, 20 (2024)
2. **A Blueprint for the Milky Way's Stellar Populations. IV. A String of Pearls--the Galactic Starburst Sequence,**
An, D., Beers, T. C., Lee, Y. -S., Masseron, T.,
Astrophysical Journal, 952, 66 (2023)
3. **Chemodynamical Analysis of Metal-rich High-eccentricity Stars in the Milky Way's Disk,**
Lee, A., Lee, Y. -S., Kim, Y. -K., Beers, T. C., An, D.,
Astrophysical Journal, 945, 56 (2023)
4. **Massive Young Stellar Objects in the Galactic Center. I. Seeing Through the Ice-rich Envelopes,**
Jang, D., An, D., Sellgren, K., Ramirez, S. V., Boogert, A. C. A., Schultheis, M.,
Astrophysical Journal, 930, 16 (2022)
5. **SEGUE-2, Old Milky Way Stars Near and Far,**
Rockosi, C. M., et al. (including An, D.),
Astrophysical Journal Supplement Series, 259, 60 (2022)
6. **A Blueprint for the Milky Way's Stellar Populations. III: Spatial Distributions and Population Fractions of Local Halo Stars,**
An, D., Beers, T. C.,
Astrophysical Journal, 918, 74 (2021)
7. **Hunting for Planetary Nebulae toward the Galactic Center,**
Hong, J., Simpson, J. P., An, D., Cotera, A. S., Ramirez, S. V.,
Astronomical Journal, 162, 93 (2021)
8. **The Photometric Metallicity and Carbon Distributions of the Milky Way's Halo and Solar Neighborhood from S-PLUS Observations of SDSS Stripe 82,**
Whitten, D. D., et al. (including An, D.),
Astrophysical Journal, 912, 147 (2021)
9. **A Blueprint for the Milky Way's Stellar Populations. II: Improved Isochrone Calibration in the SDSS and Pan-STARRS Photometry Systems,**
An, D., Beers, T. C.,
Astrophysical Journal, 907, 101 (2021)
10. **A Blueprint for the Milky Way's Stellar Populations: The Power of Large Photometric and Astrometric Surveys,**
An, D., Beers, T. C.,
Astrophysical Journal, 897, 39 (2020)
11. **Radial Dependence of the Proto-globular Cluster Contribution to the Milky Way Formation,**
Chung, C., Pasquato, M., Lee, S.-Y., di Carlo, U. N., An, D., Yoon, S.-J., Lee, Y.-W.,
Astrophysical Journal Letters, 883, L31 (2019)
12. **Comparison of the Asteroseismic Mass Scale of Red Clump Giants with Photometric Mass Estimates,**
An, D., Pinsonneault, M. H., Terndrup, D. M., Chung, C.,
Astrophysical Journal, 879, 81 (2019)

13. **Asymmetric Mean Metallicity Distribution of the Milky Way's Disk,**
An, D.,
Astrophysical Journal Letters, 878, 31 (2019)
14. **The Second APOKASC Catalog: The Empirical Approach,**
Pinsonneault, M. H., et al. (including An, D.),
Astrophysical Journal Supplement Series, 239, 32 (2018)
15. **Medium-Resolution Spectroscopy of Red Giant Branch Stars in Omega Centauri,**
An, D., Lee, Y. S., Jung, J., Rey, S., Rhee, J., Lee, J., Lee, Y. -W., Joe, Y.,
Astronomical Journal, 154, 150 (2017)
16. **Abundant Methanol Ice toward a Massive Young Stellar Object,**
An, D., Sellgren, K., Boogert, A. C. A., Ramirez, S., Pyo, T. -S.,
Astrophysical Journal Letters, 843, 36 (2017)
17. **Spectroscopic Survey of G and K Dwarfs in the Hipparcos Catalog. I. Comparison between the Hipparcos and Photometric Parallaxes,**
Kim, B., An, D., Stauffer, J. R., Lee, Y. S., Terndrup, D. M., Johnson, J. A.,
Astrophysical Journal Supplement Series, 222, 19 (2016)
18. **Globular and Open Clusters Observed by SDSS/SEGUE: The Giant Stars,**
Morrison, H. L., Ma, Z., Clem, J. L., An, D., Connor, T., Schechtman-Rook, A., Casagrande, L.,
Rockosi, C., Yanny, B., Harding, P., Beers, T. C., Johnson, J. A., Schneider, D. P.,
Astronomical Journal, 151, 7 (2016)
19. **The Fractions of Inner- and Outer-halo Stars in the Local Volume,**
An, D., Beers, T. C., Santucci, R. M., Carollo, D., Placco, V. M., Lee, Y. S., Rossi, S.,
Astrophysical Journal Letters, 813, 28 (2015)
20. **The Distances to Open Clusters from Main-sequence Fitting. V. Extension of Color Calibration and Test Using Cool and Metal-rich Stars in NGC 6791,**
An, D., Terndrup, D. M., Pinsonneault, M. H., Lee, J. -W.,
Astrophysical Journal, 811, 46 (2015)
21. **The APOKASC Catalog: An Asteroseismic and Spectroscopic Joint Survey of Targets in the Kepler Fields,**
Pinsonneault, M. H., et al. (including An, D.),
Astrophysical Journal Supplement Series, 215, 19 (2014)
22. **The Galactic Center: Not an Active Galactic Nuclei,**
An, D., Ramirez, S. V., Sellgren, K.,
Astrophysical Journal Supplement Series, 206, 20 (2013)
23. **The Stellar Metallicity Distribution Function of the Galactic Halo from SDSS Photometry,**
An, D., Beers, T. C., Johnson, J. A., Pinsonneault, M. H., et al.,
Astrophysical Journal, 763, 65 (2013)
24. **Signatures of Minor Mergers in the Milky Way Disc I: The SEGUE G-Dwarf Sample,**
Gomez, F. A., Minchev, I., O'Shea, B. W., Lee, Y. S., Beers, T. C., An, D., Bullock, J. S., Purcell, C. W., Villalobos, A.
Monthly Notices of the Royal Astronomical Society, 423, 3727 (2012)
25. **A Revised Effective Temperature Scale for the Kepler Input Catalog,**
Pinsonneault, M. H., An, D., Molenda-Zakowicz, J., Chaplin, W. J., Metcalfe, T. S., Bruntt, H.
Astrophysical Journal Supplement, 199, 30 (2012)
26. **The Case for the Dual Halo of the Milky Way,**
Beers, T. C., Carollo, D., Ivezić, Z., An, D., Chiba, M., Norris, J. E., Freeman, K. C., Lee, Y. S.,

- Munn, J. A., Fiorentin, P. R., Sivarani, T., Wilhelm, R., Yanny, B., York, D. G.,
Astrophysical Journal, 746, 34 (2012)
27. **Formation and Evolution of the Disk System of the Milky Way: $[\alpha/\text{Fe}]$ Ratios and Kinematics of the SEGUE G-Dwarf Sample,**
Lee, Y. S., Beers, T. C., An, D., Ivezic, Z., Just, A., Rockosi, C. M., Morrison, H. L., Johnson, J. A.,
Schonrich, R., Bird, J., Yanny, B., Harding, P.,
Astrophysical Journal, 738, 187 (2011).
28. **Massive Young Stellar Objects in the Galactic Center. I. Spectroscopic Identification from Spitzer Infrared Spectrograph Observations,**
An, D., Ramirez, S. V., Sellgren, K., Arendt, R. G., Boogert, A. C. A., Robitaille, T. P., Schultheis, M.,
Cotera, A. S., Smith, H. A., Stolovy, S. R.,
Astrophysical Journal, 736, 133 (2011).
29. **Predicting the Detectability of Oscillations in Solar-type Stars Observed by Kepler,**
Chaplin, W. J., et al. (including An, D.),
Astrophysical Journal, 732, 54 (2011)
30. **The Eighth Data Release of the Sloan Digital Sky Survey: First Data from SDSS-III,**
Hiroaki, A., and for the Sloan Digital Sky Survey (including An, D.),
Astrophysical Journal Supplement, 193, 29 (2011)
31. **The SEGUE Stellar Parameter Pipeline. V. Estimation of Alpha-Element Abundance Ratios from Low-Resolution SDSS/SEGUE Stellar Spectra,**
Lee, Y. S., Beers, T. C., Allende Prieto, C., Lai, D. K., Rockosi, C. M., Morrison, H. L., Johnson, J. A.,
An, D., Sivarani, T., Yanny, B.,
Astronomical Journal, 141, 90 (2011)
32. **The SEGUE Stellar Parameter Pipeline. IV. Validation with an Extended Sample of Galactic Globular and Open Clusters,**
Smolinski, J. P., Lee, Y. S., Beers, T. C., An, D., Bickerton, S., J., Johnson, J. A., Loomis, C. P.,
Rockosi, C. M., Sivarani, T., Yanny, B.,
Astronomical Journal, 141, 89 (2011)
33. **A Photometric Metallicity Estimate of the Virgo Stellar Overdensity,**
An, D., Johnson, J. A., Beers, T. C., Pinsonneault, M. H., Terndrup, D. M., Delahaye, F., Lee, Y. S.,
Mason, T., Yanny, B.,
Astrophysical Journal Letters, 707, 64 (2009)
34. **First Spectroscopic Identification of Massive Young Stellar Objects in the Galactic Center,**
An, D., Ramirez, S. V., Sellgren, K., Arendt, R. G., Boogert, A. C. A., Schultheis, M., Stolovy, S. R.,
Cotera, A. S., Robitaille, T. P., Smith, H. A.,
Astrophysical Journal Letters, 702, 128 (2009)
35. **Galactic Globular and Open Clusters in the Sloan Digital Sky Survey. II. Test of Theoretical Stellar Isochrones,**
An, D., Pinsonneault, M. H., Masseron, T., Delahaye, F., Johnson, J. A., Terndrup, D. M., Beers, T. C.,
Ivans, I. I., Ivezic, Z.,
Astrophysical Journal, 700, 523 (2009)
36. **The Seventh Release of Sloan Digital Sky Survey,**
Abazajian, K., and for the Sloan Digital Sky Survey (including An, D.),
Astrophysical Journal Supplement, 182, 543 (2009)

37. **SEGUE: A Spectroscopic Survey of 240,000 Stars with $g=14-20$,**
Yanny, B., Rockosi, C., et al. (SEGUE collaboration including An, D.),
Astronomical Journal, 137, 4377 (2009)
38. **Galactic Globular and Open Clusters in the Sloan Digital Sky Survey. I. Crowded Field Photometry and Cluster Fiducial Sequences in *ugriz*,**
An, D., Johnson, J. A., Clem, J. L., Yanny, B., Rockosi, C. M., Morrison, H. L., Harding, P., Gunn, J. E., Allende Prieto, C., Beers, T. C., Cudworth, K. M., Ivans, I. I., Ivezić, Z., Lee, Y. S., Lupton, R. H., Bizyaev, D., Brewington, H., Malanushenko, E., Malanushenko, V., Oravetz, D., Pan, K., Simmons, A., Snedden, S., Watters, S., York, D. G.,
Astrophysical Journal Supplement, 179, 326 (2008)
39. **The SEGUE Stellar Parameter Pipeline. II. Validation with Galactic Globular and Open Clusters,**
Lee, Y. S., Beers, T. C., Sivarani, T., Johnson, J. A., An, D., Wilhelm, R., Allende Prieto, C., Fiorentin, P. R., Bailer-Jones, C. A., Norris, J. E., Yanny, B., Rockosi, C., Newberg, H. J., Cudworth, K. M., Pan, K.,
Astronomical Journal, 136, 2050 (2008)
40. **The Distances to Open Clusters from Main-Sequence Fitting. IV. Galactic Cepheids, the LMC, and the Local Distance Scale,**
An, D., Terndrup, D. M., Pinsonneault, M. H.,
Astrophysical Journal, 671, 1640 (2007)
41. **Resolving the Pulsations of Subdwarf B stars: HS 0039+4302, HS 0444+0458 and an Examination of the Group Properties of Resolved Pulsators,**
Reed, M. D., Terndrup, D. M., Zhou, A.-Y., Unterborn, C. T., An, D., Eggen, J. R.,
Monthly Notices of the Royal Astronomical Society, 378, 1049 (2007)
42. **Follow-up Observations of Pulsating Subdwarf B Stars: Multisite Campaigns on PG1618+563B and PG0048+091,**
Reed, M. D., O'Toole, S. J., Terndrup, D. M., Eggen, J. R., Zhou, A.-Y., An, D., Chen, C.-W., Chen, W. P., Lin, H.-C., Akan, C., Cakirli, O., Worters, H., Kilkenny, D., Siwak, M., Zola, S., Kim, S.-L., Gelven, G. A., Harms, S. L., Wolf, G. W.,
Astrophysical Journal, 664, 518 (2007)
43. **The Distances to Open Clusters from Main-Sequence Fitting. III. Improved Accuracy with Empirically Calibrated Isochrones,**
An, D., Terndrup, D. M., Pinsonneault, M. H., Paulson, D. B., Hanson, R. B., Stauffer, J. R.,
Astrophysical Journal, 655, 233-260 (2007)
44. **Anomalous Optical Gamma-Ray Burst Afterglows Are Common: Two $z \sim 4$ Bursts, GRB 060206 and GRB 060210,**
Stanek, K. Z., Dai, X., Prieto, J. L., An, D., Garnavich, P. M., Calkins, M. L., Serven, J., Worthey, G., Hao, H., Dobrzycki, A., Howk, C., Matheson, T.,
Astrophysical Journal Letters, 654, L21-24 (2007)
45. **Discovery of a New Multiperiodic δ Scuti Variable Star,**
Zhou, A.-Y., An, D., Eggen, J. R., Reed, M. D., Terndrup, D. M., Harms, S. L.,
Astrophysics and Space Science, 305, 29-36 (2006)
46. **Resolving the pulsations of subdwarf B Stars: PG 0154+182, HS 1824+5745 and HS 2151+0857,**
Reed, M. D., Eggen, J. R., Zhou, A.-Y., Terndrup, D. M., Harms, S. L., An, D., Hashier, M. A.,
Monthly Notices of the Royal Astronomical Society, 369, 1529-1536 (2006)
47. **Microlens OGLE-2005-BLG-169 Implies That Cool Neptune-like Planets Are Common,**
Gould, A., Udalski, A., An, D., Bennett, D. P., Zhou, A.-Y., Dong, S., Rattenbury, N. J., Gaudi, B. S., Yock, P. C. M., Bond, I. A., Christie, G. W., Horne, K., Anderson, J., Stanek, K. Z., DePoy, D. L.,

- Han, C., McCormick, J., Park, B.-G., Pogge, R. W., Poindexter, S. D., Soszyński, I., Szymański, M. K., Kubiak, M., Pietrzyński, G., Szewczyk, O., Wyrzykowski, Ł., Ulaczyk, K., Paczyński, B., Bramich, D. M., Snodgrass, C., Steele, I. A., Burgdorf, M. J., Bode, M. F., Botzler, C. S., Mao, S., Swaving, S. C.,
Astrophysical Journal Letters, 644, L37-40 (2006)
48. **GRB 060218/SN 2006aj: A Gamma-Ray Burst and Prompt Supernova at $z = 0.0335$,**
 Mirabal, N., Halpern, J. P., An, D., Thorstensen, J. R., Terndrup, D. M.,
Astrophysical Journal Letters, 643, L99-102 (2006)
49. **Resolving the Pulsations of the Subdwarf B Star KPD 2109 + 4401,**
 Zhou, A.-Y., Reed, M. D., Harms, S., Terndrup, D. M., An, D., Zola, S., Gazeas, K. D.,
 Niarchos, P. G., Ogloza, W., Baran, A., Wolf, G. W.,
Monthly Notices of the Royal Astronomical Society, 367, 179-185 (2006)
50. **Follow-Up Observations of Known EC 14026-type Pulsators,**
 Wolf, G. W., Reed, M. D., Zhou, A.-Y., Terndrup, D. M., Harms, S. L., An, D., Chen, C.-W., Lin, H.-
 C., Zola, S., Baran, A., Ogloza, W., Siwak, M., Gazeas, K. D., Niarchos, P. G., Kilkenny, D.,
Baltic Astronomy, 15, 279-282 (2006)
51. **Survey for EHB Stars in the Galactic Bulge,**
 Terndrup, D. M., An, D., Hansen A., Peterson, R. C., Walker, A. R., Sadler, E. M.,
Astrophysics and Space Science, 291, 247-252 (2004)

NON-REFEREED ARTICLES / PROCEEDINGS / POSTER PRESENTATIONS (MOST RECENT FIRST):

1. **Metallicity Mapping of the Milky Way Galaxy with Large Photometric Surveys,**
An, D., Beers, T. C.,
Life and Times of the Milky Way, Shanghai (2018).
2. **Metallicity Mapping of the Milky Way Galaxy with Large Photometric Surveys,**
An, D., Beers, T. C.,
IAU General Assembly, Meeting #??, id. (2018).
3. **Near-Infrared Spectroscopic Observations of Two Candidate Planetary Nebulae Toward the Galactic Center,**
Hong, J., An, D., Simpson, J., Sellgren, K. Ramirez, S. Cotera, A.,
IAU General Assembly, Meeting #??, id. (2018).
4. **Metallicity Mapping of the Milky Way Galaxy with Large Photometric Surveys,**
An, D., Beers, T. C.,
SDSS IV Collaboration Meeting (2018).
5. **Gemini Observations of Two Candidate Planetary Nebulae Toward the Galactic Center,**
Hong, J., An, D., Simpson, J., Sellgren, K. Ramirez, S. Cotera, A.,
Korean Astronomical Society Meeting (2018).
6. **Abundant Methanol Ice Toward a Massive Young Stellar Object in the Galactic Center,**
An, D., Sellgren, K., Boogert, A. C. A., Ramirez, S., Pyo, T.-S.,
K-GMT Science Program Users meeting (2018).
7. **Extension of Empirical Color Calibration and Test using Cool and Metal-Rich Stars in NGC 6791,**
An, D., Terndrup, D. M., Pinsonneault, M. H., Lee, J.-W.,
IAU General Assembly, Meeting #29, id.2256375 (2015).
8. **Three New Candidate Planetary Nebulae near the Galactic Center,**
Simpson, J. P., Sellgren, K. Ramirez, S., Cotera, A., An, D.,
IAU General Assembly, Meeting #29, id.2251870 (2015).
9. **Stellar Populations with APOGEE and Kepler,**
Johnson, J. A., et al. (including An, D.),
American Astronomical Society Meeting Abstracts, 225, #302.02 (2015).
10. **Preliminary Evaluation of the Kepler Input Catalog Extinction Model Using Stellar Temperatures,**
Zasowski, G., An, D., Pinsonneault, M. H.,
Asteroseismology of Stellar Populations in the Milky Way, Astrophysics and Space Science Proceedings, Volume 39, p. 83, Springer International Publishing Switzerland (2015).
11. **High-Resolution Spectroscopy of Hipparcos Cool Dwarfs,**
Kim, B., An, D., Lee, Y. S., Stauffer, J. R., Terndrup, D. M., Johnson, J. A.,
Poster presentation, 18th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun (2014).
12. **Horizontal-Branch Stars in SDSS: Fiducial Sequences in ugriz and RGB Mass Loss in Open Clusters,**
Yu. H., An, D., Chung, C., Pinsonneault, M. H., Terndrup, D. M., Johnson, J. A.,
Poster presentation, 18th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun (2014).
13. **The Galactic Center: Not an Active Galactic Nucleus,**
An, D., Sellgren, K., Ramirez, S.,
Proceedings of the International Astronomical Union, Volume 303, pp. 54-58 (2014).

14. **Galactic Globular and Open Clusters in the Sloan Digital Sky Survey: Horizontal Branch Stars and Mass Loss in NGC 6791,**
Yu, H., An, D., Chung, C.,
Korean Astronomical Society Meeting Abstracts, IM-12 (2014).
15. **Line Diagnostics Across the Galactic Nucleus from Mid-Infrared Emission Line Mapping,**
An, D., Sellgren, K., Ramirez, S.,
American Astronomical Society Meeting Abstracts, 223, #346.23 (2014).
16. **A Revised Effective Temperature Scale for the Kepler Input Catalog,**
An, D., Pinsonneault, M. H., Molenda-Zakowicz, J., Chaplin, W. J., Metcalfe, T. S., Bruntt, H.,
Poster presentation, 17th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun (2012).
17. **Metallicity Distribution of the Galactic Halo from SDSS Photometry,**
An, D., Beers, T. C., Johnson, J. A., Pinsonneault, M. H., Lee, Y., Ivezic, Z., Newby, M.,
American Astronomical Society Meeting Abstracts, 219, #439.20 (2012).
18. **First Spectroscopic Identification of Massive Young Stellar Objects in the Galactic Center,**
An, D., Ramirez, S. V., Sellgren, K., Arendt, R. G., Boogert, A. C. A., Robitaille, T. P., Schultheis, M., Cotera, A. S., Smith, H. A., Stolovy, S. R.,
The Galactic Center: a Window to the Nuclear Environment of Disk Galaxies, 439, 115.
19. **Formation and Evolution of the Disk System of the Milky Way: $[\alpha/\text{Fe}]$ Ratios and Kinematics of the SEGUE G-Dwarf Sample,**
Beers, T. C., Lee, Y. S., An, D., Schoenrich, R., Rockosi, C. M., Morrison, H. L., Johnson, J. A., Just, A., Ivezic, Z., Bird, J., Yanny, B., Harding, P.,
Bulletin of the American Astronomical Society, #231.02 (2011).
20. **Spectroscopic Identification of Massive Young Stellar Objects in the Galactic Center,**
Ramirez, S. V., An, D., Sellgren, K., Arendt, R. G., Boogert, A. C. A., Robitaille, T. P., Schultheis, M., Cotera, A. S., Smith, H. A., Stolovy, S. R.,
Bulletin of the American Astronomical Society, #108.08 (2011).
21. **CN and CH Abundance Analysis in a Sample of Eight Galactic Globular Clusters,**
Smolinski, J. P., Lee, Y. S., Beers, T. C., Martell, S. L., An, D., Sivarani, T.,
American Astronomical Society Meeting Abstracts, 217, #434.49 (2011).
22. **Metallicity Mapping with *gri* photometry: the Virgo Overdensity and the Halos of the Galaxy,**
Beers, T. C., An, D., Johnson, J. A., Pinsonneault, M. H., Terndrup, D. M., Delahaye, F., Lee, Y. S., Masseron, T., Carollo, D., Yanny, B.,
IAU Symp. 262, 127 (2010).
23. **CN and CH Abundance Analysis in a Sample of Six Galactic Globular Clusters,**
Smolinski, J. P., Beers, T. C., Lee, Y. S., An, D., Sivarani, T.,
American Astronomical Society Meeting Abstracts, 215, #478.05 (2010).
24. **Searching for Signatures of Radial Mixing in the Chemically Divided Galactic Disks,**
Lee, Y. S., Schonrich, R., Beers, T. C., Heather, M. L., An, D., Allende Prieto, C., Asplund, M., Carollo, D., Rockosi, C. M.,
American Astronomical Society Meeting Abstracts, 215, #413.03 (2010).
25. **Spectroscopic Study of Massive Young Stellar Object Candidates in the Galactic Center,**
An, D., Ramirez, S. V., Sellgren, K., Arendt, R. G., Boogert, A. C. A., Schultheis, M., Stolovy, S. R., Cotera, A. S., Robitaille, T. P., Smith, H. A.,
American Astronomical Society Meeting Abstracts, 215, #345.01 (2010).
26. **First Spectroscopic Identification of Massive Young Stellar Objects in the Galactic Center,**
An, D., Ramirez, S. V., Sellgren, K., Arendt, R. G., Boogert, A. C. A., Schultheis, M., Stolovy, S. R.,

- Cotera, A. S., Robitaille, T. P., Smith, H. A.,
Poster presentation, Reionization to Exoplanets: Spitzer's Growing Legacy (2009).
27. **Discovery of Massive Young Stellar Objects in the Galactic Center with Warm CO₂ Gas Absorption,**
An, D., Ramirez, S. V., Sellgren, K., Arendt, R. G., Boogert, A. C. A., Cotera, A. S., Robitaille, T. P.,
 Schultheis, M., Smith, H. A., Stolovy, S. R.,
American Astronomical Society Meeting Abstracts, 214, #315.06 (2009).
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 32. **Follow-up observations of pulsating subdwarf B stars,**
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 33. **Better distances to open clusters through calibrated isochrones,**
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 34. **Anomalous Colors of Spotted Variable Stars in the Alpha Persei Cluster,**
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1. **The Essential Cosmic Perspective (우주의 본질),**
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CONFERENCE TALKS AND COLLOQUIA (MOST RECENT FIRST):

1. (Invited) *Stellar Populations in the Milky Way from Large Photometric Surveys*, Korea Astronomical Society Meeting, Seoul, October 17, 2019.
2. (Contributed) *Asymmetric Mean Metallicity Distribution of the Milky Way's Disk*, Milky Way Mini Workshop, Chungnam National University, July 3, 2019.
3. (Contributed) *Photometric Metallicity Mapping of the Milky Way*, Milky Way Mini Workshop, Ewha Womans University, July 12, 2018.
4. (Colloquium) *Demographics of Stellar Populations in the Milky Way Galaxy*, Department of Astronomy, Seoul National University, Seoul, June 7, 2018.
5. (Invited) *Properties of Stars in the Milky Way*, Center for Galactic Evolution Research (CGER) Workshop, Yonsei University, Seoul, August 26, 2015.
6. (Invited) *The Demographics of Stellar Populations in the Halo of the Milky Way*, Kavli Frontiers of Science Symposium, Jeju, June 18, 2015.
7. (Colloquium) *Photometric Mass of Red Clump Stars in NGC 6791*, Department of Astronomy, Chungnam National University, Daejun, Korea, May 28, 2012.
8. (Contributed) *Distance and Reddening of NGC 6791 from Empirically Calibrated Isochrones*, Korea Astronomical Society Meeting, Seoul National University, April 17, 2015.
9. (Contributed) *New Insights on NGC6791: Enhanced Mass Loss in a High Metallicity System*, The Evolution of Stellar Populations in Globular Clusters and Early Type Galaxies, Seoul, Korea, June 17, 2014.
10. (Invited) *The Milky Way Galaxy in the Era of Large Photometric Surveys*, Winter school, Center for Galactic Evolution Research (CGER), Busan, February 5, 2014.
11. (Contributed) *The Galactic Center: Not an Active Galactic Nucleus*, The Galactic Center: Feeding and Feedback in a Normal Galactic Nucleus, Santa Fe, New Mexico, September 30, 2013.
12. (Contributed) *The Galactic Center: Not an Active Galactic Nucleus*, Korea Astronomical Society Meeting, Dae-cheon, April 12, 2013.
13. (Invited) *The Stellar Metallicity Distribution Function of the Galactic Halo from SDSS Photometry*, "Stars, Planets, and Life" workshop, Seoul National University, Seoul, February 22, 2013.
14. (Contributed) *The Galactic Center: Not an Active Galactic Nucleus*, Korea-Japan Collaboration Workshop, Seoul National University, Seoul, November 15, 2012.
15. (Colloquium) *Life of the Milky Way*, Department of Astronomy, Chung-nam National University, Daejun, Korea, May 30, 2012.
16. (Invited) *Life of the Milky Way*, Korean Astronomical Society Meeting, Kyung-ju, April 5, 2012.
17. (Invited) *Metallicity Distribution of the Galactic Halo from SDSS Photometry*, The 3rd Subaru International Conference, Shuzenji, Japan, November 2, 2011.
18. (Contributed) *Metallicity Distribution of the Galactic Halo from SDSS Photometry*, Korean Astronomical Society Meeting, Jeju, Korea, October 7, 2011.

19. (Colloquium) *New Insights into the Milky Way Galaxy*,
Department of Astronomy, Kyung Hee University, Yongin, Korea, September 27, 2011.
20. (Invited) *Infrared Spectroscopic View of the Galactic Center*,
IGRINS Summer School, Gyeongju, Korea, August 19, 2011.
21. (Colloquium) *New Insights into the Milky Way Galaxy. II*,
Department of Astronomy, Seoul National University, Seoul, April 21, 2011.
22. (Contributed) *Spectroscopic Identifications of Massive Young Stellar Objects in the Galactic Center*,
Korean Astronomical Society Meeting, Chungbuk National University, Cheung-ju, April 8, 2011.
23. (Contributed) *Metallicity Mapping of the Milky Way Galaxy using SDSS Photometry*,
SDSS/SEGUE Collaboration Meeting, CCAPP, Ohio State University, Columbus, March 17, 2011.
24. (Colloquium) *New Insights into the Milky Way Galaxy*,
Yonsei University, Seoul, November 29, 2010.
25. (Contributed) *Star Formation Histories of the Milky Way Galaxy*,
GMT 2010 Workshop, Seoul National University, Seoul, October 6, 2010.
26. (Contributed) *Spectroscopic Study of Massive Young Stellar Objects in the Galactic Center*,
IGRINS Workshop, Seoul National University, Seoul, August 27, 2010.
27. (Contributed) *Metallicity Mapping of the Galactic Halos from SDSS Photometry*,
SDSS/SEGUE Collaboration Meeting, University of California, Santa Cruz, February 13, 2010.
28. (Colloquium) *New Insights into the Milky Way Galaxy*,
University of California, Santa Cruz, February 12, 2010.
29. (Contributed) *Spectroscopic Study of Massive Young Stellar Objects in the Galactic Center*,
AAS 215th Meeting, Washington, D.C., January 5, 2010.
30. (Contributed) *First Spectroscopic Identification of Massive Young Stellar Objects in the Galactic Center*,
Galactic Center Workshop, Shanghai, China, October 20, 2009.
31. (Colloquium) *New Insights into the Milky Way Galaxy*,
The Carnegie Observatories, Pasadena, California, September 15, 2009.
32. (Colloquium) *New Insights into the Milky Way Galaxy*,
Department of Astronomy, Kyungpook National Univ., Daegu, Korea, August 5, 2009.
33. (Colloquium) *New Insights into the Milky Way Galaxy*,
Department of Astronomy, Sejong University, Seoul, Korea, August 4, 2009.
34. (Colloquium) *New Insights into the Milky Way Galaxy*,
Korean Astronomy and Space Science Institute, Daejeon, Korea, August 3, 2009.
35. (Colloquium) *New Insights into the Milky Way Galaxy*,
Department of Astronomy, Seoul National University, Seoul, Korea, July 29, 2009.
36. (Colloquium) *New Insights into the Milky Way Galaxy*,
Department of Astronomy, Yonsei University, Seoul, Korea, July 28, 2009.
37. (Colloquium) *New Insights into the Milky Way Galaxy*,
Department of Astronomy, Chungbuk National Univ., Cheongju, Korea, July 27, 2009.
38. (Contributed) *First Spectroscopic Identification of Massive Young Stellar Objects in the Galactic Center*,
AAS 214th Meeting, Pasadena, California, June 11, 2009.
39. (Colloquium) *Improving the Local Distance Scale from Empirically Calibrated Stellar Isochrones*,
IGPP Astrophysics & Cosmology Seminar, Department of Physics and Astronomy, University of California Irvine, February 24, 2009.

40. (Contributed) *Massive Young Stellar Objects in the Galactic Center: Spitzer IRS Observations*, Greater IPAC Science Symposium, IPAC, Caltech, January 22, 2009.
41. (Contributed) *SDSS: Crowded Field Photometry, Stellar Isochrones, and Prospects for the Galactic Halo Studies*, American Astronomical Society 213th Meeting, Long Beach, California, January 6, 2009.
42. (Colloquium) *Improving the Local Distance Scale from Empirically Calibrated Stellar Isochrones*, IPAC Astronomy Colloquia, IPAC, Caltech, September 24, 2008.
43. (Contributed) *Galactic Globular and Open Clusters in SDSS*, SDSS Collaboration Meeting, University of Chicago, August 19, 2008.
44. (Contributed) *The Empirical Calibration of Isochrones and the Local Distance Scale*, American Astronomical Society 211th Meeting, Austin, Texas, January 10, 2008.
45. (Contributed) *Empirical Isochrone Calibration in ugriz*, SDSS Collaboration Meeting, Fermi National Accelerator Laboratory, November 3, 2007.
46. (Contributed) *Isochrone Calibration in ugriz*, Sloan Digital Sky Survey Collaboration Meeting, Drexel Univ., Philadelphia, March 31, 2007.
47. (Colloquium) *Accurate Distances to Open Clusters using Calibrated Isochrones*, Korean Astronomy and Space Science Institute, Daejun, Korea, August 16, 2006.
48. (Colloquium) *Accurate Distances to Open Clusters using Calibrated Isochrones*, Department of Astronomy, Yonsei University, Seoul, Korea, August 10, 2006.