In 2019, the National Academy of Sciences received 572 white papers concerning the sciences as part of the Astro2020 Decadal Survey on Astronomy and Astrophysics. Below you may find a table of all of the science white papers in alphabetical order by lead author. Click on the link to download the full PDF of the white paper.

| Principal Author | Institution of Principal Author | Title | File |
|---|---|---|---|
| Aalto, Susanne | Chalmers University of Technology, Sweden | Extremely obscured galaxy nuclei — hidden AGNs and extreme starbursts | astro2020_swp_Aalto_S |
| Airapetian, Vladimir | NASA GSFC and American University, DC | Reconstructing Extreme Space Weather From Planet Hosting Stars | astro2020_swp_Airapetian_p |
| Ajello, Marco | Clemson University | Supermassive black holes at high redshifts | astro2020_swp_Ajello_M1 |
| Ajello, Marco | Clemson University | The MeV Background | astro2020_swp_Ajello_M2 |
| Albert, Andrea | Los Alamos National Lab | Searching for Sources of TeV Particle Dark Matter in the Southern Hemisphere | astro2020_swp_Albert_A |
| Alvarez, Marcelo | University of California, Berkeley | Unique Probes of Reionization with the CMB:From the First Stars to Fundamental Physics | astro2020_swp_Alvarez_M |
| Anderson, Loren | West Virginia University | HII Regions and the Warm Ionized Medium | astro2020_swp_Anderson_L |
| Apai, Daniel | University of Arizona | Mapping Ultracool Atmospheres: Time-domain Observations of Brown Dwarfs and Exoplanets | astro2020_swp_Apai_D1 |
| Apai, Daniel | University of Arizona | Planetary Habitability Informed by Planet Formation and Exoplanet Demographics | astro2020_swp_Apai_D2 |
| Appleton, Philip | Caltech | Warm H2 as a probe of massive accretion and feedback through shocks and turbulence across cosmic time | astro2020_swp_Appleton_P |
| Arney, Giada | NASA Goddard Space Flight Center | The Sun-like Stars Opportunity | astro2020_swp_Arney_G |
| Baker, John | NASA Goddard Space Flight Center | Multimessenger science opportunities with mHz gravitational waves | astro2020_swp_Baker_J |
| Bardalez Gagliuffi, Daniella | American Museum of Natural History | Substellar Multiplicity Throughout the Ages | astro2020_swp_Bardalez Gagliuffi_ |
| Barnes, Rory | University of Washington | Geoscience and the Search for Life Beyond the Solar System | astro2020_swp_Barnes_R |
| Barstow, Martin | University of Leicester | White dwarfs as probes of fundamental astrophysics | astro2020_swp_Barstow_M |
| Bastian, Tim | National Radio Astronomy Observatory | Diagnostics of Space Weather Drivers Enabled by Radio Observations | astro2020_swp_Bastian_T1 |

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| Bastian, Tim | National Radio Astronomy Observatory | Radio Observational Constraints on Turbulent Astrophysical Plasmas | astro2020_swp_Bastian_T2 |
| Bastian, Tim | National Radio Astronomy Observatory | Radio, Millimeter, Submillimeter Observations of the Quiet Sun | astro2020_swp_Bastian_T3 |
| Basu, Kaustuv | University of Bonn | "SZ spectroscopy" in the coming decade: Galaxy cluster cosmology and astrophysics in the submillimeter | astro2020_swp_Basu_K |
| Basu-Zych, Antara | UMBC/CRESST, NASA/GSFC | Cooking with X-rays: Can X-ray binaries heat the early Universe? | astro2020_swp_Basu-Zych_A |
| Battaglia, Nicholas | Cornell University | Probing Feedback in Galaxy Formation with Millimeter-wave Observations | astro2020_swp_Battaglia_N |
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| Bauer, James | University of Maryland | Planetary Science with Astrophysical Assets: Defining the Core Capabilities of Platforms | astro2020_swp_Bauer_J |
| Beaton, Rachael L | Princeton University | Measuring the Hubble Constant Near and Far in the Era of ELT's | astro2020_swp_Beaton_R |
| Bechtol, Keith | University of Wisconsin-Madison | Dark Matter Science in the Era of LSST | astro2020_swp_Bechtol_K |
| Becker, George | University of California, Riverside | Studying the Reionization Epoch with QSO Absorption Lines | astro2020_swp_Becker_G |
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| Belikov, Ruslan | NASA Ames Research Center | Direct Imaging of Exoplanets in Nearby Multi-Star Systems | astro2020_swp_Belikov_R |
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| Bennett, David | NASA Goddard and University of Maryland | Wide-Orbit Exoplanet Demographics | astro2020_swp_Bennett_D |

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| Berea, Anamaria | University of Central Florida | The Promise of Data Science for the Technosignatures Field | astro2020_swp_Berea_A |
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| Berti, Emanuele | Johns Hopkins University | Tests of General Relativity and Fundamental Physics with Space-based Gravitational Wave Detectors | astro2020_swp_Berti_E |
| Betancourt-Martinez, Gabriele | Institut de Recherche en Astrophysique et Planétologie (IRAP)/CNRS | Unlocking the Capabilities of Future High-Resolution X-ray Spectroscopy Missions Through Laboratory Astrophysics | astro2020_swp_Betancourt-Martinez_G |
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| Binns, Walter | Washington University in St. Louis | Ultra-heavy cosmic-ray science: Are r-process nuclei in the cosmic rays produced in supernovae or binary neutron star mergers? | astro2020_swp_Binns_W |
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| Bogdanov, Slavko | Columbia University | Determining the Equation of State of Cold, Dense Matter with X-ray Observations of Neutron Stars | astro2020_swp_Bogdanov_S |
| Boice, Daniel | Scientific Studies and Consulting | Understanding Activity in Small Solar System Bodies | astro2020_swp_Boice_D |
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| Bonifacio, Piercarlo | GEPI, Observatoire de Paris | Extremely metal-poor stars: the need for UV spectra | astro2020_swp_Bonifacio_P |
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| Bregman, Joel | University of Michigan | A Survey of Hot Gas in the Universe | astro2020_swp_Bregman_J |
| Brightman, Murray | California Institute of Technology | Breaking the limit: Super-Eddington accretion onto black holes and neutron stars | astro2020_swp_Brightman_M |

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| Brown, Peter | Texas A&M University, Mitchell Institute for Fundamental Physics and Astronomy | Keeping an Ultraviolet Eye on Supernovae | astro2020_swp_Brown_P |
| Bryson, Steve | NASA Ames Research Center | Making Exoplanet Surveys Useful for Statistical Population Studies | astro2020_swp_Bryson_S |
| Bulbul, Esra | Center for Astrophysics \| Harvard & Smithsonian | Probing Macro-Scale Gas Motions and Turbulence in Diffuse Cosmic Plasmas | astro2020_swp_Bulbul_E |
| Burchett, Joseph | Univ. of California - Santa Cruz | Ultraviolet Perspectives on Diffuse Gas in the Largest Cosmic Structures | astro2020_swp_Burchett_J |
| Burgarella, Denis | Aix-Marseille University, CNRS, CNES, Laboratoire d'Astrophysique de Marseille | Measuring the Metallicity of Low-Mass, Low-Metallicity Galaxies in the Early Universe and the Galactic Habitability | astro2020_swp_Burgarella_D |
| Burgasser, Adam | UC San Diego | High-Resolution Spectroscopic Surveys of Ultracool Dwarf Stars & Brown Dwarfs | astro2020_swp_Burgasser_A1 |
| Burgasser, Adam | UC San Diego | Fundamental Physics with Brown Dwarfs: The Mass-Radius Relation | astro2020_swp_Burgasser_A2 |
| Burns, Eric | NASA Goddard | A Summary of Multimessenger Science with Neutron Star Mergers | astro2020_swp_Burns_E |
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| Burns, Eric | NASA Goddard | Opportunities for Multimessenger Astronomy in the 2020s | astro2020_swp_Burns_E2 |
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| Buzasi, Derek | Florida Gulf Coast University | Fundamental Stellar Physics throughout the Galaxy | astro2020_swp_Buzasi_D |
| Caiazzo, Ilaria | University of British Columbia | Testing general relativity with accretion onto compact objects | astro2020_swp_Caiazzo_I1 |
| Caiazzo, Ilaria | University of British Columbia | Hunting for ancient brown dwarfs: the developing field of brown dwarfs in globular clusters | astro2020_swp_Caiazzo_I2 |
| Caldwell, Robert | Dartmouth College | Astro2020 Science White Paper: Cosmology with a Space-Based Gravitational Wave Observatory | astro2020_swp_Caldwell_R |
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| Campbell, Bruce | Smithsonian Institution | Radar Astronomy for Planetary Surface Studies | astro2020_swp_Campbell_B |
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| Carilli, Christopher | NRAO | Resolving the Radio Photospheres of Main Sequence Stars | astro2020_swp_Carilli_C2 |
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| Checlair, Jade | University of Chicago | A Statistical Comparative Planetology Approach to Maximize the Scientific Return of Future Exoplanet Characterization Efforts | astro2020_swp_Checlair_J |
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| Chen, Hsiao-Wen | The University of Chicago | Tracking the Baryon Cycle in Emission and in Absorption | astro2020_swp_Chen_H |
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| Christiansen, Jessie | Caltech/IPAC-NExScI | Mapping out the time-evolution of exoplanet processes | astro2020_swp_Christiansen_J2 |
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| Ciardi, David | Caltech/IPAC-NExScI | Toward Finding Earth 2.0: Masses and Orbits of Small Planets with Extreme Radial Velocity Precision | astro2020_swp_Ciardi_D |
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| Civano, Francesca | Center for Astrophysics \| Harvard & Smithsonian | Cosmic evolution of supermassive black holes: A view into the next two decades | astro2020_swp_Civano_F |
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| Clark, Susan | Institute for Advanced Study | Magnetic Fields and Polarization in the Diffuse Interstellar Medium | astro2020_swp_Clark_S |
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| De Pater, Imke | UC Berkeley | Potential for Solar System Science with the ngVLA: the Giant Planets | astro2020_swp_de Pater_I |
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| Fraija, Nissim | Instituto de Astronomia, UNAM, Mexico | Cosmic Rays in the TeV to PeV Primary Energy Range | astro2020_swp_Fraija_N1 |
| Fraija, Nissim | Instituto de Astronomia, UNAM, Mexico | Surveying TeV Gamma-ray Emission from 4 Active Galactic Nuclei | astro2020_swp_Fraija_N2 |
| France, Kevin | University of Colorado | Detecting Protoplanets and Tracing the Composition and Evolution of Planet-forming Material with Large UV/Optical Observatories | astro2020_swp_France_K |
| Frank, Adam | University of Rochester | Exo&SS and High Energy Density Plasma Science | astro2020_swp_Frank_A |

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| Friesen, Rachel | National Radio Astronomy Observatory | Star-Forming Filaments and Cores in Molecular Clouds | astro2020_swp_Friesen_R |
| Fryer, Chris | Los Alamos National Laboratory | Core-Collapse Supernovae and Multi-Messenger Astronomy | astro2020_swp_Fryer_C |
| Fundator, Michael | Rutgers University | Application of timescale, magnitudes, and fractal time with Stein estimators to astronomical observations. | astro2020_swp_Fundator_M1 |
| Fundator, Michael | Rutgers University | Galileo Galilei versus Aristotle, Philosophy of motion, Galileo's contemporaries, very large numbers, Fermat's Last Theorem, and speed of light. | astro2020_swp_Fundator_M2 |
| Fundator, Michael | Rutgers University | Theory of motion with historical perspective. | astro2020_swp_Fundator_M3 |
| Furlanetto, Steven | University of California Los Angeles | Synergies Between Galaxy Surveys and Reionization Measurements | astro2020_swp_Furlanetto_S1 |
| Furlanetto, Steven | University of California Los Angeles | Fundamental Cosmology in the Dark Ages with 21-cm Line Fluctuations | astro2020_swp_Furlanetto_S2 |
| Furlanetto, Steven | University of California Los Angeles | Insights Into the Epoch of Reionization with the Highly-Redshifted 21-cm Line | astro2020_swp_Furlanetto_S3 |
| Günther, Hans M. | MIT | The fastest components in stellar jets | astro2020_swp_GÃ¼nther_H |
| Gaensicke, Boris | University of Warwick | Evolved Planetary Systems around White Dwarfs | astro2020_swp_Gaensicke_B |
| Gallo, Elena | University of Michigan | Towards a high accuracy measurement of the local black hole occupation fraction in low mass galaxies | astro2020_swp_Gallo_E |
| Garcia, Javier | California Institute of Technology | Probing the Black Hole Engine with Measurements of the Relativistic X-ray Reflection Component | astro2020_swp_Garcia_J |
| Garcia, Miriam | Centro de Astrobiologia, CSIC-INTA | Walking along Cosmic History: Metal-poor Massive Stars | astro2020_swp_Garcia_M |
| Gary, Dale | New Jersey Institute of Technology | Particle Acceleration and Transport, New Perspectives from Radio, X-ray, and Gamma-Ray Observations | astro2020_swp_Gary_D |
| Gaspar, Andras | Steward Observatory, The University of Arizona | Modeling Debris Disk Evolution | astro2020_swp_Gaspar_A |
| Gaudi, B. Scott | The Ohio State University | â€˜Auxiliary' Science with the WFIRST Microlensing Survey | astro2020_swp_Gaudi_B |
| Geach, James | University of Hertfordshire | The case for a 'sub-millimeter SDSS': a 3D map of galaxy evolution to z~10 | astro2020_swp_Geach_J |
| Gelfand, Joseph | NYU Abu Dhabi | MeV Emission from Pulsar Wind Nebulae: Understanding Extreme Particle Acceleration in Highly Relativistic Outflows | astro2020_swp_Gelfand_J |
| Ghosh, Tapasi | Green Bank Observatory, WV | Radio Spectral Line Probe of Evolution of Fundamental Constants | astro2020_swp_Ghosh_T |

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| Gies, Douglas | Georgia State University | High Angular Resolution Astrophysics: Evolutionary Impact of Stellar Mass Loss | astro2020_swp_Gies_D |
| Gilbert, Karoline | Space Telescope Science Institute | Construction of an Lâˆ— Galaxy: the Transformative Power of Wide Fields for Revealing the Past, Present and Future of the Great Andromeda System | astro2020_swp_Gilbert_K |
| Ginsburg, Adam | National Radio Astronomy Observatory | Galactic center star formation & feedback: key questions | astro2020_swp_Ginsburg_A |
| Gluscevic, Vera | University of Florida | Cosmological Probes of Dark Matter Interactions: The Next Decade | astro2020_swp_Gluscevic_V |
| Goicoechea, Javier R. | CSIC, Madrid, Spain | Stellar Feedback in the ISM Revealed by Wide-Field Far-Infrared Spectral-Imaging | astro2020_swp_Goicoechea_J |
| Gordon, Karl | Space Telescope Science Institute | Interstellar Dust Grains: Ultraviolet and Mid-IR Extinction Curves | astro2020_swp_Gordon_K |
| Graham, Melissa | University of Washington | Discovery Frontiers of Explosive Transients: An ELT and LSST Perspective | astro2020_swp_Graham_M |
| Green, Daniel | University of California San Diego | Messengers from the Early Universe: Cosmic Neutrinos and Other Light Relics | astro2020_swp_Green_D |
| Green, Joel | Space Telescope Science Institute | Variability in the Assembly of Protostellar Systems | astro2020_swp_Green_J |
| Greene, Jenny | Princeton University | The Local Relics of of Supermassive Black Hole Seeds | astro2020_swp_Greene_J |
| Greene, Thomas | NASA Ames Research Center | Characterizing Transiting Exo&SS with JWST Guaranteed Time and ERS Observations | astro2020_swp_Greene_T |
| Grin, Daniel | Haverford College | Gravitational probes of ultra-light axions | astro2020_swp_Grin_D |
| Grindlay, Jonathan | Harvard University | Big Science with a nUV-MidIR Rapid-Response 1.3m Telescope at L2 | astro2020_swp_Grindlay_J |
| Grohs, Evan | University of California, Berkeley | Big Bang Nucleosynthesis and Neutrino Cosmology | astro2020_swp_Grohs_E |
| Grossan, Bruce | UC Berkeley Space Sciences Laboratory | Measurement of the Optical-IR Spectral Shape of Prompt Gamma-Ray Burst Emission: A Timely Call to Action for Gamma-Ray Burst Science | astro2020_swp_Grossan_B |
| Gry, Cecile | Laboratoire d'Astrophysique de Marseille, Aix Marseille Univ. | Far- to near-UV spectroscopy of the interstellar medium at very high resolution and very high signal-to-noise ratio | astro2020_swp_Gry_C |
| Gudipati, Murthy | Jet Propulsion Laboratory, California Institute of Technology | From Interstellar Ice Grains to Evolved Planetary Systems: The Role of Laboratory Studies | astro2020_swp_Gudipati_M |
| Guiriec, Sylvain | George Washington University / NASA Goddard Space Flight Center | Gamma-Ray Science in the 2020s | astro2020_swp_Guiriec_S |

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| Gultekin, Kayhan | University of Michigan | Black Holes Across Cosmic Time | astro2020_swp_Gultekin_K |
| Gutermuth, Robert | University of Massachusetts Amherst | Dense Cores, Stellar Feedback and the Origins of Clustered Star Formation | astro2020_swp_Gutermuth_R |
| Hagen, Lea | STScI | Spatially Resolved Observations of the Ultraviolet Attenuation Curve | astro2020_swp_Hagen_L |
| Haiman, Zoltan | Columbia University | Electromagnetic Window into the Dawn of Black Holes | astro2020_swp_Haiman_Z |
| Hammel, Heidi | AURA | Solar System Science with the James Webb Space Telescope | astro2020_swp_Hammel_H |
| Haqq-Misra, Jacob | Blue Marble Space Institute of Science | Searching for Technosignatures: Implications of Detection and Non-Detection | astro2020_swp_Haqq-Misra_J |
| Harding, Alice | NASA Goddard Space Flight Center | Prospects for Pulsar Studies at MeV Energies | astro2020_swp_HARDING_A |
| Harding, J. Patrick | Los Alamos National Laboratory | Exploring Beyond-the-Standard-Model Physics with TeV Gamma-rays | astro2020_swp_Harding_J |
| Harman, Chester | Columbia University | A Balancing Act: Biosignature and Anti-Biosignature Studies in the Next Decade and Beyond | astro2020_swp_Harman_C |
| Harrington, Kevin | Argelander Institute for Astronomy, Bonn, Germany | The Extended Cool Gas Reservoirs Within z > 1 (Proto-)Cluster Environments | astro2020_swp_Harrington_K |
| Heap, Sara | Emerita scientist, Goddard Space Flight Center | Understanding Cosmic Evolution: The Role of UV Spectroscopic and Imaging Surveys | astro2020_swp_Heap_S |
| Heiles, Carl | University of California at Berkeley | Galactic and Extragalactic Astrochemisry: Heavy-Molecule Precursors to Life? | astro2020_swp_heiles_c |
| Hensley, Brandon | Princeton University | Determining the Composition of Interstellar Dust with Far-Infrared Polarimetry | astro2020_swp_Hensley_B |
| Heyer, Mark | University of Massachusetts, Amherst | Far Infrared Spectroscopic Imaging of the Neutral Interstellar Medium in Galaxies | astro2020_swp_Heyer_M |
| Heyl, Jeremy | University of British Columbia | Exploring the physics of neutron stars with high-resolution, high-throughput X-ray spectroscopy | astro2020_swp_Heyl_J |
| Hickox, Ryan | Dartmouth College | Resolving the cosmic X-ray background with a next-generation high-energy X-ray observatory | astro2020_swp_Hickox_R |
| Hillenbrand, Lynne | California Institute of Technology | Young Pre-Main Sequence Stars: Accretion/Outflow, Planet Formation, and Contraction/Spin-Up on the Active Journey to a Main Sequence Life of Boredom | astro2020_swp_hillenbrand_l |
| Hinkel, Natalie | Southwest Research Institute | Stellar Characterization Necessary to Define Holistic Planetary Habitability | astro2020_swp_Hinkel_N1 |
| Hinkel, Natalie | Southwest Research Institute | An Interdisciplinary Perspective on Elements in Astrobiology: From Stars to Planets to Life | astro2020_swp_Hinkel_N2 |
| Hložek, Renée | Department of Astronomy and Astrophysics & | Single-object Imaging and Spectroscopy to Enhance Dark Energy Science from LSST | astro2020_swp_HloÅ¾ek_R |

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| | Dunlap Institute for Astronomy and Astrophysics, University of Toronto | | |
| Hodges-Kluck, Edmund | University of Maryland/NASA GSFC | How does dust escape from galaxies? | astro2020_swp_Hodges-Kluck_E1 |
| Hodges-Kluck, Edmund | University of Maryland/NASA GSFC | Hot Drivers of Stellar Feedback from 10 to 10,000 pc | astro2020_swp_Hodges-Kluck_E2 |
| Hogan, Jason | Stanford University | Gravitational Waves in the Mid-band with Atom Interferometry | astro2020_swp_Hogan_J |
| Holder, Gilbert | University of Illinois at Urbana-Champaign | Tracking the time-variable Millimeter-wavesky with CMB experiments | astro2020_swp_Holder_G |
| Holder, Jamie | University of Delaware | Understanding the Origin and Impact of Relativistic Cosmic Particles with Very-High-Energy Gamma-rays | astro2020_swp_Holder_J |
| Holland, Wayne | UK Astronomy Technology Centre, Royal Observatory, Edinburgh, UK | Debris disks: Exploring the environment and evolution of planetary systems | astro2020_swp_Holland_W |
| Holler, Bryan | STScI | "It's full of asteroids!â€□: Solar system science with a large field of view | astro2020_swp_Holler_B |
| Horzempa, Philip | LeMoyne College | High Definition Astrometry | astro2020_swp_Horzempa_P |
| Hosek, Matthew | UCLA | Star Formation in Different Environments: The Initial Mass Function | astro2020_swp_Hosek_M |
| Hu, Renyu | Jet Propulsion Laboratory | The Super-Earth Opportunity — Search for Habitable Exoplanets in the 2020s | astro2020_swp_Hu_R |
| Huber, Daniel | Institute for Astronomy, University of Hawaii | Stellar Physics and Galactic Archeology using Asteroseismology in the 2020's | astro2020_swp_Huber_D |
| Huff, Eric | Jet Propulsion Laboratory | Galaxy Kinematics and the Future of Dark Energy | astro2020_swp_Huff_E |
| Hunter, Todd | National Radio Astronomy Observatory | Understanding Accretion Outbursts in Massive Protostars through Maser Imaging | astro2020_swp_Hunter_T |
| Hutter, Anne | Kapteyn Astronomical Institute, University of Groningen | A proposal to exploit galaxy-21cm synergies to shed light on the Epoch of Reionization | astro2020_swp_Hutter_A |
| Isella, Andrea | Rice University | Observing Planetary Systems in the Making | astro2020_swp_Isella_A |
| Jackson, James | USRA | Far-Infrared studies of Star and Planet Formation | astro2020_swp_Jackson_J |
| James, Bethan | Space Telescope Science Institute | Spatially Resolved UV Nebular Diagnostics in Star-Forming Galaxies | astro2020_swp_James_B |
| Jang-Condell, Hannah | University of Wyoming | Protoplanetary Disk Science Enabled by Extremely Large Telescopes | astro2020_swp_Jang-Condell_H |

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| Ji, Alexander | Carnegie Observatories | Local Dwarf Galaxy Archaeology | astro2020_swp_Ji_A |
| Ji, Hantao | Princeton University | Major Scientific Challenges and Opportunities in Understanding Magnetic Reconnection and Related Explosive Phenomena throughout the Universe | astro2020_swp_Ji_H |
| Johnson, Jennifer | Ohio State University | The Origin of the Elements Across Cosmic Time | astro2020_swp_Johnson_J |
| Johnson, Megan | United States Naval Observatory | The Next Generation Celestial Reference Frame | astro2020_swp_Johnson_M1 |
| Johnson, Marshall | The Ohio State University | Tracing the Origins and Evolution of Small Planets using Their Orbital Obliquities | astro2020_swp_Johnson_M2 |
| Juanola-Parramon, Roser | NASA GSFC/UMBC | Solar System Science with Space Telescopes | astro2020_swp_Juanola-Parramon_ |
| Kalogera, Vassiliki | Northwestern U. | The Yet-unobserved Multi-Messenger Gravitational-Wave Universe | astro2020_swp_Kalogera_V1 |
| Kalogera, Vicky | Northwestern U. | Deeper, Wider, Sharper: Next-Generation Ground-based Gravitational-Wave Observations of Binary Black Holes | astro2020_swp_Kalogera_V2 |
| Kamraj, Nikita | California Institute of Technology | Probing the Physical Properties of the Corona in Accreting Black Holes | astro2020_swp_Kamraj_N |
| Kane, Stephen | University of California, Riverside | Venus as a Nearby Exoplanetary Laboratory | astro2020_swp_Kane_S |
| Kao, Der-You | NASA Goddard Space Flight Center/ Universities Space Research Association | Impacts of Quantum Chemistry Calculations on Exoplanetary Science, Planetary Astronomy, and Astrophysics | astro2020_swp_Kao_D |
| Kao, Melodie | Arizona State University | Magnetism in the Brown Dwarf Regime | astro2020_swp_Kao_M |
| Kara, Erin | University of Maryland, NASA GSFC, MIT | X-ray follow-up of extragalactic transients | astro2020_swp_Kara_E |
| Kartaltepe, Jeyhan | Rochester Institute of Technology | Assembly of the Most Massive Clusters at Cosmic Noon | astro2020_swp_Kartaltepe_J |
| Kashlinsky, Alexander | Goddard Space Flight Center | Electromagnetic probes of primordial black holes as dark matter | astro2020_swp_Kashlinsky_A1 |
| Kashlinsky, Alexander | Goddard Space Flight Center | Populations behind the source-subtracted cosmic infrared background anisotropies | astro2020_swp_Kashlinsky_A2 |
| Kasliwal, Mansi | California Institute of Technology | The Dynamic Infrared Sky | astro2020_swp_Kasliwal_M |
| Kastner, Joel | Rochester Institute of Technology | The Early Evolution of Stars and Exoplanet Systems: Exploring and Exploiting Nearby, Young Stars | astro2020_swp_Kastner_J |
| Kataria, Tiffany | Jet Propulsion Laboratory, | The Mid-Infrared Search for Biosignatures on Temperate M-Dwarf Planets | astro2020_swp_Kataria_T |

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| | California Institute of Technology | | |
| Kauffmann, Jens | Haystack Observatory, Massachusetts Institute of Technology | Imaging Entire Molecular Clouds in many Lines: From the Milky Way to Galaxies | astro2020_swp_Kauffmann_J1 |
| Kauffmann, Jens | Haystack Observatory, Massachusetts Institute of Technology | Imaging Entire Molecular Clouds in many Lines: Formation of Stars and Planets | astro2020_swp_Kauffmann_J2 |
| Kelley, Luke | Northwestern University | Multi-Messenger Astrophysics With Pulsar Timing Arrays | astro2020_swp_Kelley_L |
| Kieda, David | University of Utah | Science opportunities enabled by the era of Visible Band Stellar Imaging with sub-100 Î¼arc-sec angular resolution. | astro2020_swp_Kieda_D |
| Kierans, Carolyn | NASA/Goddard Space Flight Center | Positron Annihilation in the Galaxy | astro2020_swp_Kierans_C |
| Kim, Alex | Lawrence Berkeley National Laboratory | Testing Gravity Using Type Ia Supernovae Discovered by Next-Generation Wide-Field Imaging Surveys | astro2020_swp_Kim_A |
| Kirkpatrick, J.Davy | Caltech/IPAC | The Need for Infrared Astrometry of Brown Dwarfs in the Post-Gaia Era | astro2020_swp_Kirkpatrick_J1 |
| Kirkpatrick, J.Davy | Caltech/IPAC | Opportunities in Time-domain Stellar Astrophysics with the NASA Near-Earth Object Camera (NEOCam) | astro2020_swp_Kirkpatrick_J2 |
| Kishimoto, Makoto | Kyoto Sangyo University | Exploring Active Supermassive Black Holes at 100 Micro-arcsecond Resolution | astro2020_swp_Kishimoto_M |
| Kobelski, Adam | West Virginia University | High Frequency Solar Observing at the Green Bank Observatory | astro2020_swp_Kobelski_A |
| Koekemoer, Anton | Space Telescope Science Institute | Ultra Deep Field Science with WFIRST | astro2020_swp_Koekemoer_A |
| Kohno, Kotaro | The University of Tokyo | Exploration and characterization of the earliest epoch of galaxy formation: beyond the re-ionization era | astro2020_swp_Kohno_K |
| Kollmeier, Juna | Carnegie Institution for Science | Precision Stellar Astrophysics and Galactic Archeology: 2020 | astro2020_swp_Kollmeier_J |
| Kopparapu, Ravi Kumar | NASA Goddard Space Flight Center | Exoplanet Diversity in the Era of Space-based Direct Imaging Missions | astro2020_swp_Kopparapu_R |
| Koss, Michael | Eureka Scientific | Black Hole Growth in Mergers and Dual AGN | astro2020_swp_Koss_M |
| Kovetz, Ely | Ben-Gurion University | Astrophysics and Cosmology with Line-Intensity Mapping | astro2020_swp_Kovetz_E |
| Kowalski, Adam | University of Colorado, National Solar Observatory | Developing a vision for exoplanetary transit spectroscopy: a shared window on the analysis of planetary atmospheres and of stellar magnetic structure | astro2020_swp_Kowalski_A |

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| Krawczynski, Henric | Washington University in Saint Louis | Using X-Ray Polarimetry to Probe the Physics of Black Holes and Neutron Stars | astro2020_swp_Krawczynski_H |
| Kreckel, Kathryn | Max Planck Institute for Astronomy | Mapping Gas Phase Abundances and Enrichment Patterns Across Galaxy Disks | astro2020_swp_Kreckel_K |
| Krissansen-Totton, Joshua | University of Washington | Atmospheric disequilibrium as an exoplanet biosignature: Opportunities for next generation telescopes | astro2020_swp_Krissansen-Totton_ |
| Kupfer, Thomas | Kavli Insitute for Theoretical Physics / UC Santa Barbara | A Summary of Multimessenger Science with Galactic Binaries | astro2020_swp_Kupfer_T |
| Kurtz, Michael | Center for Astrophysics \| Harvard & Smithsonian | From Dark Energy to Exolife: Improving the Digital Information Infrastructure for Astrophysics | astro2020_swp_Kurtz_M |
| La Plante, Paul | University of Pennsylvania | Mapping Cosmic Dawn and Reionization: Challenges and Synergies | astro2020_swp_La Plante_P |
| Laha, Sibasish | University of California, San Diego | The physics and astrophysics of X-ray outflows from Active Galactic Nuclei. | astro2020_swp_Laha_S |
| Law, Casey | UC Berkeley | Radio Time-Domain Signatures of Magnetar Birth | astro2020_swp_Law_C |
| Lazio, Joseph | Jet Propulsion Laboratory, California Institute of Technology | Magnetic Fields of Extrasolar Planets: Planetary Interiors and Habitability | astro2020_swp_Lazio_J |
| Lebouteiller, Vianney | Laboratoire AIM, CEA, CNRS, Université Paris-Saclay, Université Paris Diderot, Sorbonne Paris Cité | ISM and CGM in external galaxies | astro2020_swp_Lebouteiller_V |
| Lee, Chien-Hsiu | NOAO | Identification and characterization of the host stars in planetary microlensing with ELTs | astro2020_swp_Lee_C |
| Leggett, Sandy | Gemini Observatory Northern Operations | Discovery of Cold Brown Dwarfs or Free-Floating Giant Planets Close to the Sun | astro2020_swp_Leggett_S |
| Lehner, Nicolas | University of Notre Dame | Following the Metals in the Intergalactic and Circumgalactic Medium over Cosmic Time | astro2020_swp_Lehner_N |
| Lemoine-Busserolle, Marie | Gemini Observatory | The Evolution of the Tully-Fisher Relation: Characterizing the Assembly of Rotation-Dominated Disk Galaxies over cosmic time | astro2020_swp_Lemoine-Busserolle |
| Leroy, Adam | Ohio State University | Physical Conditions in the Cold Gas of Local Galaxies | astro2020_swp_Leroy_A |
| Lesyna, Larry | LXL Technology | A Technosignature Carrying a Message Will Likely Inform us of Crucial Biological Details of Life Outside our Solar System | astro2020_swp_Lesyna_L |

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| Leutenegger, Maurice | NASA/GSFC | The crucial role of high resolution X-ray spectroscopy in studies of massive stars and their winds | astro2020_swp_Leutenegger_M |
| Li, Ting | Fermi National Accelerator Laboratory | Dark Matter Physics with Wide Field Spectroscopic Surveys | astro2020_swp_Li_T |
| Line, Michael | Arizona State University | The Importance of Thermal Emission Spectroscopy for Understanding Terrestrial Exoplanets | astro2020_swp_Line_M |
| Lis, Dariusz | Caltech | D/H Ratio in Water and the Origin of Earth's Oceans | astro2020_swp_Lis_D |
| Lisman, Doug | Jet Propulsion Laboratory, California Institute of Technology | Surveying the solar neighborhood for ozone in the UV at temperate rocky exoplanets | astro2020_swp_Lisman_D |
| Littenberg, Tyson | NASA Marshall Space Flight Center | GRAVITATIONAL WAVE SURVEY OF GALACTIC ULTRA COMPACT BINARIES | astro2020_swp_Littenberg_T |
| Liu, Adrian | McGill University | Cosmology with the Highly Redshifted 21 cm Line | astro2020_swp_Liu_A |
| Lockman, Felix | Green Bank Observatory | High velocity Clouds: Building Blocks of the Local Group? | astro2020_swp_Lockman_F |
| Lonsdale, Colin | MIT Haystack Observatory | Studying the magnetized ISM with all-sky polarimetric radio maps | astro2020_swp_Lonsdale_C |
| Lopez, Eric | NASA Goddard Space Flight Center | Understanding Exoplanet Atmospheres with UV Observations II: The Far UV and Atmospheric Escape | astro2020_swp_Lopez_E |
| Lopez, Laura | The Ohio State University | Supernova Remnants in High Definition | astro2020_swp_Lopez_L |
| Lopez-Morales, Mercedes | Center for Astrophysics \| Harvard & Smithsonian | Detecting Earth-like Biosignatures on Rocky exoplanets around Nearby Stars with Ground-based Extremely Large Telescopes | astro2020_swp_Lopez-Morales_M |
| Lopez-Rodriguez, Enrique | SOFIA Science Center / NASA AMES Center | Tracing the feeding and feedback of active galaxies | astro2020_swp_Lopez-Rodriguez_E |
| Lorimer, Duncan | West Virginia University | Radio Pulsar Populations | astro2020_swp_Lorimer_D |
| Lovell, Amy | Agnes Scott College | Ground-based Observations of Small Solar System Bodies: Probing Our Local Debris Disk | astro2020_swp_Lovell_A |
| Lu, Jessica | UC Berkeley | From Stars to Compact Objects: The Initial-Final Mass Relation | astro2020_swp_Lu_J |
| Lunine, Jonathan | Cornell University | Comparing key compositional indicators in Jupiter with those in extra-solar giant planets. | astro2020_swp_Lunine_J |
| Lynch, Ryan | Green Bank Observatory | The Virtues of Time and Cadence for Pulsars and Fast Transients | astro2020_swp_Lynch_R |
| Lyra, Wladimir | California State University, Northridge | Planet formation — The case for large efforts on the computational side | astro2020_swp_Lyra_W |
| Maccarone, Thomas | Texas Tech University | Compact Stellar Jets | astro2020_swp_Maccarone_T1 |
| Maccarone, Thomas | Texas Tech University | Populations of Black holes in Binaries | astro2020_swp_Maccarone_T2 |

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| Mandelbaum, Rachel | Carnegie Mellon University | Wide-field Multi-object Spectroscopy to Enhance Dark Energy Science from LSST | astro2020_swp_Mandelbaum_R |
| Mantz, Adam | KIPAC, Stanford University | The Future Landscape of High-Redshift Galaxy Cluster Science | astro2020_swp_Mantz_A |
| Margot, Jean-Luc | University of California, Los Angeles | Structure of terrestrial planets and ocean worlds | astro2020_swp_Margot_J1 |
| Margot, Jean-Luc | University of California, Los Angeles | The radio search for technosignatures in the decade 2020—2030 | astro2020_swp_Margot_J2 |
| Marin, Frédéric | Université de Strasbourg, CNRS, Observatoire Astronomique de Strasbourg | The role of Active Galactic Nuclei in galaxy evolution: insights from space ultraviolet spectropolarimetry | astro2020_swp_Marin_F |
| Markevitch, Maxim | NASA GSFC | Physics of cosmic plasmas from high angular resolution X-ray imaging of galaxy clusters | astro2020_swp_Markevitch_M |
| Marley, Mark | NASA Ames Research Center | Imaging Cool Giant Planets in Reflected Light: Science Investigations and Synergy with Habitable Planets | astro2020_swp_Marley_M |
| Martin, Christopher | California Institute of Technology | IGM and CGM Emission Mapping: A New Window on Galaxy and Structure Formation | astro2020_swp_Martin_C |
| Martinez Pillet, Valentin | National Solar Observatory | Synoptic Studies of the Sun as a Key to Understanding Stellar Astrospheres | astro2020_swp_Martinez Pillet_V |
| Matra, Luca | Center for Astrophysics \| Harvard & Smithsonian | Exocometary Science | astro2020_swp_Matra_L |
| Matsuura, Mikako | Cardiff University | Dust in supernovae: --- Do supernovae produce the first dust in the Universe? Are supernovae the key dust producers of galaxies? | astro2020_swp_Matsuura_M |
| Matthews, Lynn D. | Massachusetts Institute of Technology Haystack Observatory | Unlocking the Secrets of Late-Stage Stellar Evolution and Mass Loss through Radio Wavelength Imaging | astro2020_swp_Matthews_L1 |
| Matthews, Lynn D. | Massachusetts Institute of Technology Haystack Observatory | Molecular Masers as Probes of the Dynamic Atmospheres of Dying Stars | astro2020_swp_Matthews_L1 |
| Mazin, Ben | University of California Santa Barbara | Directly Imaging Rocky Planets from the Ground | astro2020_swp_Mazin_B |
| Mcarthur, Barbara | University of Texas at Austin | All-Sky Near Infrared Space Astrometry | astro2020_swp_McArthur_B |
| Mccandliss, Stephan | Johns Hopkins University | Lyman continuum observations across cosmic time: recent developments, future requirements | astro2020_swp_McCandliss_S |

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| Mcconnell, Mark | University of New Hampshire / Southwest Research Institute | Prompt Emission Polarimetry of Gamma-Ray Bursts | astro2020_swp_McConnell_M |
| Mcgehee, Peregrine | College of the Canyons | Dynamical Processes in the Planet-Forming Environment | astro2020_swp_McGehee_P |
| Mcguire, Brett | National Radio Astronomy Observatory | Closing Gaps in Our Astrochemical Heritage: From Molecular Clouds to Planets | astro2020_swp_McGuire_B1 |
| Mcguire, Brett | National Radio Astronomy Observatory | Lifting the Veil on Aromatic Chemistry: Complex Carbon Across the Stellar Life Cycle from Birth to the Afterlife | astro2020_swp_McGuire_B2 |
| Mcguire, Brett | National Radio Astronomy Observatory | Revealing Chemical Evolution Throughout the Star-Formation Process | astro2020_swp_McGuire_B3 |
| Mcintosh, Scott | NCAR/HAO | Investigating Coronal Magnetism with COSMO: Science on the Critical Path To Understanding The â€œWeatherâ€ of Stars and Stellarspheres | astro2020_swp_McIntosh_S |
| Mcwilliams, Sean | West Virginia University | The state of gravitational-wave astrophysics in 2020 | astro2020_swp_McWilliams_S |
| Meeburg, Pieter Daniel | Kavli Institute for Cosmology, Cambridge, UK | Primordial Non-Gaussianity | astro2020_swp_Meeburg_P |
| Meech, Karen | Institute for Astronomy | Sampling Extrasolar Planetary Systems: Interstellar Objects in the Solar System | astro2020_swp_Meech_K |
| Megeath, Tom | University of Toledo | Low Mass Stars as Tracers of Star Formation in Diverse Environments | astro2020_swp_Megeath_T |
| Meixner, Margaret | Space Telescope Science Institute | Infrared Stellar Populations: Probing the Beginning and the End | astro2020_swp_Meixner_M |
| Mennesson, Bertrand | Jet Propulsion Laboratory, California Institute of Technology | Interplanetary dust around main sequence stars: origin, magnitude, and implications for exoplanet habitability searches | astro2020_swp_Mennesson_B |
| Metzger, Brian | Columbia University | Kilonovae: nUV/Optical/IR Counterparts of Neutron Star Binary Mergers with TSO | astro2020_swp_Metzger_B |
| Meyer, Eileen | University of Maryland Baltimore County (UMBC) | Prospects for AGN Studies at Hard X-ray through MeV Energies | astro2020_swp_Meyer_E |
| Michelson, Peter | Stanford University | Mid-Frequency-Band Space Gravitational Wave Observations for the 2020 Decade | astro2020_swp_Michelson_P |
| Milam, Stefanie | NASA/GSFC | Emerging Capabilities for Detection and Characterization of Near-Earth Objects (NEOs) | astro2020_swp_Milam_S |
| Milisavljevic, Dan | Purdue University | Achieving Transformative Understanding of Extreme Stellar Explosions with ELT-enabled Late-time Spectroscopy | astro2020_swp_Milisavljevic_D |
| Miller, Jon | University of Michigan | Accretion in Stellar-Mass Black Holes at High X-ray Spectral Resolution | astro2020_swp_Miller_J |
| Minchin, Robert | USRA | Invisible Structures in the Local Universe | astro2020_swp_Minchin_R |

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| Mirocha, Jordan | McGill University | First Stars and Black Holes at Cosmic Dawn with Redshifted 21-cm Observations | astro2020_swp_Mirocha_J |
| Monnier, John | University of Michigan | The Future of Exoplanet Direct Detection | astro2020_swp_Monnier_J1 |
| Monnier, John | University of Michigan | Imaging the Key Stages of Planet Formatio | astro2020_swp_Monnier_J2 |
| Moullet, Arielle | USRA/SOFIA | Solar System's minor bodies: the role of the ngVLA | astro2020_swp_Moullet_A |
| Moustakas, Leonidas | JPL/Caltech | Quasar microlensing: Revolutionizing our understanding of quasar structure and dynamics | astro2020_swp_Moustakas_L |
| Mroczkowski, Tony | European Southern Observatory (ESO) | A High-resolution SZ View of the Warm-Hot Universe | astro2020_swp_Mroczkowski_T |
| Muirhead, Philip | Boston University | Searching for Exosatellites Orbiting L and T Dwarfs: Connecting Planet Formation to Moon Formation and Finding New Temperate Worlds | astro2020_swp_Muirhead_P |
| Mukherjee, Reshmi | Barnard College, Columbia University | Exploring Frontiers in Physics with Very-High-Energy Gamma Rays | astro2020_swp_Mukherjee_R |
| Murphy, Eric | National Radio Astronomy Observatory | Unsolved Problems in Modern Astrophysics: Anomalous Microwave Emission | astro2020_swp_Murphy_E1 |
| Murphy, Eric | National radio Astronomy Observatory | Robustly Mapping the Distribution of Star Formation in High-$z$ Galaxies | astro2020_swp_Murphy_E2 |
| Murphy, Eric | National Radio Astronomy Observatory | Towards a Theory for Star Formation on All Scales | astro2020_swp_Murphy_E3 |
| Natarajan, Priyamvada | Yale University | Disentangling nature from nurture: tracing the origin of seed black holes | astro2020_swp_Natarajan_P |
| Neiner, Coralie | LESIA, Paris Observatory, France | Stellar physics with high-resolution UV spectropolarimetry | astro2020_swp_Neiner_C |
| Ness, Melissa | Columbia/Flatiron | In Pursuit of Galactic Archaeology | astro2020_swp_Ness_M |
| Neveu, Marc | University of Maryland, College Park / NASA Goddard Space Flight Center | Investigating the Solar System's Ocean Worlds with Next-Generation Space Telescopes | astro2020_swp_Neveu_M |
| Newman, Andrew | Carnegie Institution for Science | Resolving Galaxy Formation at Cosmic Noon | astro2020_swp_Newman_A |
| Newman, Jeffrey | University of Pittsburgh and PITT PACC | Deep Multi-object Spectroscopy to Enhance Dark Energy Science from LSST | astro2020_swp_Newman_J |
| Nisa, Mehr | University of Rochester | The Sun at GeV--TeV Energies: A New Laboratory for Astroparticle Physics | astro2020_swp_Nisa_M |
| Ntampaka, Michelle | Harvard Data Science Initiative; Center for | The Role of Machine Learning in the Next Decade of Cosmology | astro2020_swp_Ntampaka_M |

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| | Astrophysics \| Harvard & Smithsonian | | |
| Nyland, Kristina | NRC, resident at NRL | AGN Feedback Driven by Jet-ISM Interactions on Sub-Galactic Scales: Opportunities for Advancement in the Next Decade | astro2020_swp_Nyland_K |
| Oberg, Karin | Harvard University | Astrochemical Origins of Planetary Systems | astro2020_swp_Oberg_K |
| Ojha, Roopesh | UMBC/NASA GSFC | Neutrinos, Cosmic Rays, and the MeV Band | astro2020_swp_Ojha_R |
| Olsen, Knut | National Optical Astronomy Observatory | Science Platforms for Resolved Stellar Populations in the Next Decade | astro2020_swp_Olsen_K |
| Oppenheimer, Benjamin | University of Colorado, Boulder | Imprint of Drivers of Galaxy Formation in the Circumgalactic Medium | astro2020_swp_Oppenheimer_B |
| Orlando, Elena | Kavli Institute for Particle Astrophysics and Cosmology and Hansen Experimental Physics Laboratory, Stanford University | Cosmic Rays and interstellar medium with Gamma-Ray Observations at MeV Energies | astro2020_swp_Orlando_E |
| Orlowski-Scherer, John | University of Pennsylvania | Characterizing Extra-solar Oort Clouds withSubmillimeter-wave Observations | astro2020_swp_Orlowski-Scherer_J |
| Osten, Rachel | Space Telescope Science Institute, Johns Hopkins University | Advancing Understanding of Star-Planet Ecosystems in the Next Decade: The Radio Wavelength Perspective | astro2020_swp_Osten_R1 |
| Osten, Rachel | Space Telescope Science Institute, Johns Hopkins University | Stellar X-ray Spectroscopy Addresses Fundamental Physics of Stellar Coronae, Accretion, and Winds, and Informs Stellar and Planetary Studies | astro2020_swp_Osten_R2 |
| Overzier, Roderik | Observatório Nacional / Institute of Astronomy, Geophysics and Atmospheric Sciences, University of São Paulo | Tracing the formation history of galaxy clusters into the epoch of reionization | astro2020_swp_Overzier_R |
| Pacucci, Fabio | Kapteyn Astronomical Institute, Yale University | Detecting the Birth of Supermassive Black Holes Formed from Heavy Seeds | astro2020_swp_Pacucci_F |
| Paladini, Roberta | Caltech-IPAC | On the Origins of the Initial Mass Function | astro2020_swp_Paladini_R |

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| Palmese, Antonella | Fermi National Accelerator Laboratory | Gravitational wave cosmology and astrophysics with large spectroscopic galaxy surveys | astro2020_swp_Palmese_A |
| Papovich, Casey | Texas A&M University | UV Diagnostics of Galaxies from the Peak of Star-Formation to the Epoch of Reionization | astro2020_swp_Papovich_C |
| Pasham, Dheeraj | Massachusetts Institute of Technology | Probing the Cosmological Evolution of Super-massive Black Holes using Tidal Disruption Flares | astro2020_swp_Pasham_D |
| Peeples, Molly | Space Telescope Science Institute / Johns Hopkins University | Understanding the circumgalactic medium is critical for understanding galaxy evolution | astro2020_swp_Peeples_M |
| Pellegrini, Eric | University of Heidelberg | Making the Connection between Feedback and Spatially Resolved Emission Line Diagnostics | astro2020_swp_Pellegrini_E |
| Penny, Matthew | The Ohio State University | Measurement of the Free-Floating Planet Mass Function with Simultaneous Euclid and WFIRST Microlensing Parallax Observations | astro2020_swp_Penny_M |
| Perez, Kerstin | Massachusetts Institute of Technology | Cosmic-ray Antinuclei as Messengers for Dark Matter | astro2020_swp_Perez_K |
| Perlman, Eric | Florida Institute of Technology | Relativistic Jets in the Accretion & Collimation Zone : New Challenges Enabled by New Instruments | astro2020_swp_Perlman_E1 |
| Perlman, Eric | Florida Institute of Technology | Kiloparsec-scale Jets: Physics, Emission Mechanisms, and Challenges | astro2020_swp_Perlman_E1 |
| Perlmutter, Saul | UC Berkeley / LBNL | The Key Role of Supernova Spectrophotometry in the Next-Decade Dark Energy Science Program | astro2020_swp_Perlmutter_S |
| Petric, Andreea | Institute for Astronomy | High Redshift Obscured Quasars and the Need for Optical to NIR, Massively Multiplexed, Spectroscopic Facilities | astro2020_swp_Petric_A |
| Pevtsov, Alexei | NATIONAL SOLAR OBSERVATORY | Historical astronomical data: urgent need for preservation, digitization enabling scientific exploration | astro2020_swp_PEVTSOV_A |
| Pierce, Michael | University of Wyoming | Transverse Extragalactic Motions: a New Method for Constraining Cosmological Parameters | astro2020_swp_Pierce_M1 |
| Pierce, Michael | University of Wyoming | Characterizing the Assembly of Galaxy Cluster Populations Over Cosmic time | astro2020_swp_Pierce_M2 |
| Pineda, Jorge L. | Jet Propulsion Laboratory, California Institute of Technology | Probing Galaxy Evolution through Far- Infrared Spectroscopy of the Interstellar Medium. | astro2020_swp_Pineda_J |
| Pisani, Alice | Princeton University | Cosmic voids: a novel probe to shed light on our Universe | astro2020_swp_Pisani_A |
| Pisano, D.J. | West Virginia University | Completing the Hydrogen Census in the Circumgalactic Medium at z~0 | astro2020_swp_Pisano_D |
| Plavchan, Peter | George Mason University | Community Endorsement of the National Academies Exoplanet Science Strategy and Astrobiology Strategy for the Search for Life in the Universe Reports | astro2020_swp_Plavchan_P |
| Plotkin, Richard | University of Nevada, Reno | Local Constraints on Supermassive Black Hole Seeds | astro2020_swp_Plotkin_R |

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| Pontoppidan, Klaus | Space Telescope Science Institute | The trail of water and the delivery of volatiles to habitable planets | astro2020_swp_Pontoppidan_K |
| Pooley, David | Trinity University | The Most Powerful Lenses in the Universe: Quasar Microlensing as a Probe of the Lensing Galaxy | astro2020_swp_Pooley_D |
| Pope, Alexandra | University of Massachusetts Amherst | Simultaneous Measurements of Star Formation and Supermassive Black Hole Growth in Galaxies | astro2020_swp_Pope_A |
| Price, Sara | Harvard-Smithsonian Center for Astrophysics | Picturing a Panchromatic Past and Future | astro2020_swp_Price_S |
| Price-Whelan, Adrian | Princeton University | Stellar multiplicity: an interdisciplinary nexus | astro2020_swp_Price-Whelan_A |
| Rackham, Benjamin | University of Arizona | Constraining Stellar Photospheres as an Essential Step for Transmission Spectroscopy of Small Exoplanets | astro2020_swp_Rackham_B |
| Rahmani, Hadi | Paris Observatory | Quasar absorption lines as astrophysical probes of fundamental physics and cosmology | astro2020_swp_Rahmani_H |
| Ramirez, Ramses | Earth-Life Science Institute (ELSI), Tokyo Institute of Technology | Habitable zone predictions and how to test them | astro2020_swp_Ramirez_R |
| Rani, Bindu | NASA Goddard Space Flight Center, USA | High-Energy Polarimetry - a new window to probe extreme physics in AGN jets | astro2020_swp_Rani_B1 |
| Rani, Bindu | NASA Goddard Space Flight Center, USA | Multi-Physics of AGN Jets in the Multi-Messenger Era | astro2020_swp_Rani_B2 |
| Rankin, Joanna | University of Vermont | A Plasma-Physical Understanding of Pulsar Radio Emission Physics | astro2020_swp_Rankin_J |
| Rau, Gioia | NASA/GSFC & CUA | Cool, evolved stars: results, challenges, and promises for the next decade | astro2020_swp_Rau_G |
| Ravi, Vikram | Center for Astrophysics \| Harvard & Smithsonian; Caltech | Fast Radio Burst Tomography of the Unseen Universe | astro2020_swp_Ravi_V |
| Ravindranath, Swara | Space Telescope Science Institute | Spatially-resolved studies of star-forming galaxies in the reionization epoch | astro2020_swp_Ravindranath_S |
| Rayner, John | IRTF/University of Hawaii | Astrophysics with the NASA Infrared Telescope Facility | astro2020_swp_Rayner_J |
| Reach, William | USRA | Far-Infrared studies of Galaxy Evolution | astro2020_swp_Reach_W |
| Reid, Mark | Center for Astrophysics \| Harvard & Smithsonian | Science Opportunities with Long Baseline Radio Interferometry and Micro-arcsecond Astrometry | astro2020_swp_Reid_M |
| Reinhard, Christopher | Georgia Institute of Technology | The remote detectability of Earth's biosphere through time and the importance of UV capability for characterizing habitable exoplanets | astro2020_swp_Reinhard_C |

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| Reitze, David | California Institute of Technology | The US Program in Ground-Based Gravitational Wave Science: Contribution from the LIGO Laboratory | astro2020_swp_Reitze_D |
| Remijan, Anthony | National Radio Astronomy Observatory | OBSERVATIONAL ASTROCHEMISTRY IN THE NEXT DECADE | astro2020_swp_Remijan_A |
| Reynolds, Christopher | University of Cambridge | High-Energy Astrophysics in the 2020s and Beyond | astro2020_swp_Reynolds_C |
| Rho, Jeonghee | SETI Institute | Are Supernovae the Dust Producer in the Early Universe? | astro2020_swp_Rho_J |
| Rhodes, Jason | Jet Propulsion Laboratory, California Institute of Technology | Cosmological Synergies Enabled by Joint Analysis of Multi-probe data from WFIRST, Euclid, and LSST | astro2020_swp_Rhodes_J1 |
| Rhodes, Jason | Jet Propulsion Laboratory, California Institute of Technology | The End of Galaxy Surveys | astro2020_swp_Rhodes_J2 |
| Rich, R. Michael | Department of Physics and Astronomy, UCLA | The Chemical/Dynamical Evolution of the Galactic Bulge | astro2020_swp_Rich_R |
| Ridgway, Stephen | NOAO | Precision Analysis of Evolved Stars | astro2020_swp_Ridgway_S |
| Rieke, George | University of Arizona | JWST/MIRI Surveys in GOODS-S | astro2020_swp_Rieke_G |
| Rieke, Marcia | University of Arizona | JWST GTO/ERS Deep Surveys | astro2020_swp_Rieke_M |
| Rigby, Jane | NASA Goddard Space Flight Center | The production and escape of ionizing photons from galaxies over cosmic time | astro2020_swp_Rigby_J |
| Rix, Hans-Walter | Max Planck Institute for Astronomy, Heidelberg | Binaries Matter Everywhere: from Precision Calibrations to Re-Ionization and Gravitational Waves | astro2020_swp_Rix_H |
| Robertson, Brant | UC Santa Cruz and Institute for Advanced Study | Understanding Galaxy Formation via Near-Infrared Surveys in the 2020s | astro2020_swp_Robertson_B |
| Robinson, Tyler | Northern Arizona University | Characterizing Exoplanet Habitability | astro2020_swp_Robinson_T |
| Roederer, Ian | University of Michigan | The First Stars and the Origin of the Elements | astro2020_swp_Roederer_I1 |
| Roederer, Ian | University of Michigan | The Potential of Ultraviolet Spectroscopy to Open New Frontiers to Study the First Stars | astro2020_swp_Roederer_I2 |
| Roederer, Ian | University of Michigan | The astrophysical r-process and the origin of the heaviest elements | astro2020_swp_Roederer_I3 |
| Roettenbacher, Rachael | Yale University | High Angular Resolution Astrophysics: Resolving Stellar Surface Features | astro2020_swp_Roettenbacher_R |

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| Roman-Duval, Julia | Space Telescope Science Institute | Metal Abundances and Depletions in the Neutral Interstellar Medium of Galaxies: the Local Volume as a Laboratory | astro2020_swp_Roman-Duval_J |
| Ross, Nicholas | University of Edinburgh | Opportunities in Time-Domain Extragalactic Astrophysics with the NASA Near-Earth Object Camera (NEOCam) | astro2020_swp_Ross_N |
| Rudie, Gwen C. | Carnegie Institution for Science | Observing Galaxies and Dissecting their Baryon Cycle at Cosmic Noon | astro2020_swp_Rudie_G |
| Ruszkowski, Mateusz | University of Michigan in Ann Arbor | Supermassive Black Hole Feedback | astro2020_swp_Ruszkowski_M |
| Ryan, Russell | Space Telescope Science Institute | The WFIRST Deep Grism Survey: WDGS | astro2020_swp_Ryan_R |
| Rymer, Abigail | JHUAPL | Solar System Ice Giants: Exoplanets in our Backyard. | astro2020_swp_Rymer_A |
| Sadavoy, Sarah | Harvard-Smithsonian Center for Astrophysics | The Life Cycle of Dust | astro2020_swp_Sadavoy_S |
| Safi-Harb, Samar | University of Manitoba | High-Resolution X-ray Imaging Studies of Neutron Stars, Pulsar Wind Nebulae and Supernova Remnants | astro2020_swp_Safi-Harb_S |
| Sahai, Raghvendra | Jet Propulsion Laboratory, California Institute of Technology | Probing Strong Binary Interactions and Accretion in Asymptotic Giant Branch Stars | astro2020_swp_Sahai_R |
| Sallum, Steph | University of California, Santa Cruz | Imaging Giant Protoplanets with the ELTs | astro2020_swp_Sallum_S |
| Salter, Christopher | Green Bank Observatory | Radio Scintillation Studies of Comet Ion Tails | astro2020_swp_Salter_C1 |
| Salter, Christopher | Green Bank Observatory & Arecibo Observatory | Secular Transient Radio Sources | astro2020_swp_Salter_C2 |
| Sanderson, Robyn | University of Pennsylvania / Flatiron Institute | The Multidimensional Milky Way | astro2020_swp_Sanderson_R |
| Santander, Marcos | University of Alabama | A Unique Messenger to Probe Active Galactic Nuclei: High-Energy Neutrinos | astro2020_swp_Santander_M |
| Sarazin, Fred | Colorado School of Mines | What is the nature and origin of the highest-energy particles in the universe? | astro2020_swp_Sarazin_F |
| Sathnur, Ashwini | United Nations Development Programme | Solar flares and Quantum Neural Networks | astro2020_swp_Sathnur_A |
| Sathyaprakash, Bangalore | The Pennsylvania State University | EXTREME GRAVITY AND FUNDAMENTAL PHYSICS | astro2020_swp_Sathyaprakash_B1 |
| Sathyaprakash, Bangalore | The Pennsylvania State University | COSMOLOGY AND THE EARLY UNIVERSE | astro2020_swp_Sathyaprakash_B2 |

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| Sathyaprakash, Bangalore | The Pennsylvania State University | MULTIMESSENGER UNIVERSEâ€¨with GRAVITATIONAL WAVES from BINARY SYSTEMS | astro2020_swp_Sathyaprakash_B3 |
| Savin, Daniel Wolf | Columbia University | Astrophysical Science enabled by Laboratory Astrophysics Studies in Atomic, Molecular, and Optical (AMO) Physics | astro2020_swp_Savin_D |
| Schaefer, Gail | The CHARA Array of Georgia State University | Binary and Multiple Star Systems at High Angular Resolution | astro2020_swp_Schaefer_G1 |
| Schaefer, Gail | The CHARA Array of Georgia State University | High Angular Resolution Astrophysics in the Era of Time Domain Surveys | astro2020_swp_Schaefer_G2 |
| Schroeder, Frank | Bartol Research Institute, Department of Physics and Astronomy, University of Delaware, Newark, DE, USA | High-Energy Galactic Cosmic Rays | astro2020_swp_Schroeder_F |
| Schussler, Fabian | IRFU, CEA Paris-Saclay | All-Sky time domain astrophysics with Very High Energy Gamma rays | astro2020_swp_Schussler_F |
| Scolnic, Daniel | Duke University | The Next Generation of Cosmological Measurements with Type Ia Supernovae | astro2020_swp_Scolnic_D |
| Scowen, Paul | Arizona State University | Outline of Analysis Studies Conducted by NASA Cosmic Origins Program Analysis Group Members During the Past 10 Years | astro2020_swp_Scowen_P |
| Sehgal, Neelima | Stony Brook University | Science from an Ultra-Deep, High-Resolution Millimeter-Wave Survey | astro2020_swp_Sehgal_N |
| Sembach, Ken | Space Telescope Science Institute | The Search for Life Elsewhere as a Compelling Science Theme for Astro2020 | astro2020_swp_Sembach_K |
| Shandera, Sarah | The Pennsylvania State University | Probing the origin of our Universe through cosmic microwave background constraints on gravitational waves | astro2020_swp_Shandera_S |
| Shao, Michael | Jet Propulsion Laboratory, California Institute of Technology | Finding Exo-Earths with Precision Space Astrometry | astro2020_swp_Shao_M |
| Shawhan, Peter | University of Maryland and Joint Space-Science Institute | Multi-Messenger Astrophysics Opportunities with Stellar-Mass Binary Black Hole Mergers | astro2020_swp_Shawhan_P |
| Sheehan, Patrick | National Radio Astronomy Observatory | Protostellar Disks: The Missing Link Between Cores and Planets | astro2020_swp_Sheehan_P |
| Sheikh, David | ZeCoat Corporation | Method to aluminum-coat telescope mirrors in space for EUV-broadband astronomy | astro2020_swp_sheikh_d |
| Shen, Yue | University of Illinois | Mapping the Inner Structure of Quasars with Time-Domain Spectroscopy | astro2020_swp_Shen_Y |

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| Shoemaker, David | Massachusetts Institute of Technology | Gravitational wave astronomy with LIGO and similar detectors in the next decade | astro2020_swp_Shoemaker_D1 |
| Shoemaker, David | MIT | Gravitational-Wave Astronomy in the 2020s and Beyond: A view across the gravitational wave spectrum | astro2020_swp_Shoemaker_D2 |
| Siemens, Xavier | University of Wisconsin -- Milwaukee | Physics Beyond the Standard Model With Pulsar Timing Arrays | astro2020_swp_Siemens_X |
| Siemiginowska, Aneta | Center for Astrophysics \| Harvard & Smithsonian | The Next Decade of Astroinformatics and Astrostatistics | astro2020_swp_Siemiginowska_A |
| Simon, Joshua | Carnegie Observatories | Testing the Nature of Dark Matter with Extremely Large Telescopes | astro2020_swp_Simon_J1 |
| Simon, Joshua | Carnegie Observatories | Dynamical Masses for a Complete Census of Local Dwarf Galaxies | astro2020_swp_Simon_J2 |
| Simon, Robert | Universitaet zu Koeln | The Cycling of Matter from the Interstellar Medium to Stars and back | astro2020_swp_Simon_R |
| Slosar, Anze | Broookhaven National Laboratory | Dark Energy and Modified Gravity | astro2020_swp_Slosar_A1 |
| Slosar, Anze | Broookhaven National Laboratory | Scratches from the Past: Inflationary Archaeology through Features in the Power Spectrum of Primordial Fluctuations | astro2020_swp_Slosar_A2 |
| Smith, J.D. | University of Toledo | The Chemical Enrichment History of the Universe | astro2020_swp_Smith_J |
| Snios, Bradford | Center for Astrophysics \| Harvard & Smithsonian | X-rays Studies of the Solar System | astro2020_swp_Snios_B |
| Stanghellini, Letizia | National Optical Astronomy Observatory | Radial Metallicity Gradients in Star-Forming Galaxies | astro2020_swp_Stanghellini_L |
| Stanke, Thomas | ESO | The warm and dense Galaxy - tracing the formation of dense cloud structures out to the Galactic Center | astro2020_swp_Stanke_T |
| Stark, Christopher | Space Telescope Science Institute | Optimal Architectures and Survey Designs for Maximizing the Yields of Direct-Imaging Exoplanet Missions | astro2020_swp_Stark_C |
| Stauffer, John | Caltech/IPAC | The IMF at Very Low Mass Using Near-IR Surveys from Space: The Need for Deep K-band Imaging | astro2020_swp_Stauffer_J |
| Steiner, James F | MIT | Accretion Physics with Fast X-ray Spectral Timing | astro2020_swp_Steiner_J |
| Stephens, Ian | CfA/SAO | Polarization in Disks | astro2020_swp_Stephens_I |
| Stinebring, Dan R. | Oberlin College | Twelve Decades: Probing the Interstellar Medium from kiloparsec to sub-AU scales | astro2020_swp_Stinebring_D |
| Su, Kate | Steward Observatory, University of Arizona | Probing Unseen Planet Populations with Resolved Debris Disk Structures | astro2020_swp_Su_K |
| Su, Yuanyuan | University of Kentucky | A Unification of the Micro and Macro Physics in the Intracluster Medium of Nearby Clusters | astro2020_swp_Su_Y |

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| Suntzeff, Nicholas B. | Mitchell Institute for Fundamental Physics & Astronomy, Texas A&M University | The Cusp of Discovery in Astronomy | astro2020_swp_Suntzeff_N |
| Tanvir, Nial | University of Leicester | GRBs as Probes of the Early Universe with TSO | astro2020_swp_Tanvir_N |
| Taylor, Patrick | Lunar and Planetary Institute | Planetary Radar Astronomy with Ground-Based Astrophysical Assets | astro2020_swp_Taylor_P |
| Taylor, Stephen | California Institute of Technology | Supermassive Black-hole Demographics &Environments With Pulsar Timing Arrays | astro2020_swp_Taylor_S1 |
| Taylor, Stuart F. | Participation Worldscope | Characterizing the Distribution of Parameters of Planets Found by Radial Velocity is Essential for Understanding Planet Formation and Evolution | astro2020_swp_Taylor_S2 |
| Thilker, David | Johns Hopkins University | The Nature of Low-Density Star Formation | astro2020_swp_Thilker_D |
| Timmes, Frank | Arizona State University | Catching Element Formation In The Act ; The Case for a New MeV Gamma-Ray Mission: Radionuclide Astronomy in the 2020s | astro2020_swp_Timmes_F |
| Tinto, Massimo | University of California San Diego, Center for Astrophysics and Space Sciences | Space-Based Gravitational Wave Observations in the Mid-Band Frequency Region | astro2020_swp_Tinto_M |
| Tkachenko, Andrew | Institute of Astronomy, KU Leuven | Gravity-wave asteroseismology of intermediate- and high-mass stars | astro2020_swp_Tkachenko_A |
| Tobin, John | National Radio Astronomy Observatory | The Formation and Evolution of Multiple Star Systems | astro2020_swp_Tobin_J1 |
| Tobin, John | National Radio Astronomy Observatory | Measuring Protostar Masses: The Key to Protostellar Evolution | astro2020_swp_Tobin_J2 |
| Toloza, Odette | University of Warwick | Understanding the evolution of close white dwarf binaries | astro2020_swp_Toloza_O |
| Tombesi, Francesco | University of Maryland, College Park | Do Supermassive Black Hole Winds Impact Galaxy Evolution? | astro2020_swp_Tombesi_F |
| Tremblay, Grant | Center for Astrophysics \| Harvard & Smithsonian | Galaxy Winds in the Age of Hyperdimensional Astrophysics | astro2020_swp_Tremblay_G |
| Trilling, David | Northern Arizona University | Origins Survey of Primordial Relics: ELTs Reveal Compositional Variation across the Solar System | astro2020_swp_Trilling_D |
| Tripp, Todd | University of Massachusetts - Amherst | On The Unique Value of Spectroscopy in the Deep Ultraviolet for Galaxy Evolution Studies | astro2020_swp_Tripp_T |
| Tumlinson, Jason | STScI / JHU | The Baryon Cycle, Resolved: A New Discovery Space for UV Spectroscopy | astro2020_swp_Tumlinson_J |

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| Turyshev, Slava | Jet Propulsion Laboratory, Californa Institute of Technology | Direct Multi-Pixel Imaging and Spatially-Resolved Spectroscopy of a Potentially Habitable Exoplanet with the Solar Gravitational Lens | astro2020_swp_Turyshev_S |
| Tuttle, Sarah | University of Washington, Seattle | Mapping the CGM in Emission | astro2020_swp_Tuttle_S |
| Tzeferacos, Petros | University of Chicago | Astrophysical magnetized turbulence and turbulent dynamo in laser-driven plasma experiments | astro2020_swp_Tzeferacos_P |
| Uzdensky, Dmitri | University of Colorado Boulder | Extreme Plasma Astrophysics | astro2020_swp_Uzdensky_D |
| Valencic, Lynne | Johns Hopkins University | Probing the Structure of Interstellar Dust from Micron to Kpc Scales with X-ray Imaging | astro2020_swp_Valencic_L |
| Van Belle, Gerard | Lowell Observatory | High Angular Resolution Astrophysics: Fundamental Stellar Parameters | astro2020_swp_van Belle_G |
| Van Der Marel, Nienke | NRC Herzberg Astronomy & Astrophysics programs | Dust growth and dust trapping in protoplanetary disks with the ngVLA | astro2020_swp_van der Marel_N |
| Vandenbroucke, Justin | University of Wisconsin | Multi-messenger and transient astrophysics with very-high-energy gamma rays | astro2020_swp_Vandenbroucke_J |
| Venters, Tonia | NASA Goddard Space Flight Center | Energetic Particles of Cosmic Accelerators I: Galactic Accelerators | astro2020_swp_Venters_T1 |
| Venters, Tonia | NASA Goddard Space Flight Center | Energetic Particles of Cosmic Accelerators II: Active Galactic Nuclei and Gamma-ray Bursts | astro2020_swp_Venters_T2 |
| Viana, Aion | Instituto de Física de São Carlos, Universidade de São Paulo, Brazil | Searching for TeV Dark Matter in the Milky Way Galactic Center | astro2020_swp_Viana_A |
| Vieregg, Abigail | University of Chicago | Astrophysics Uniquely Enabled by Observations of High-Energy Cosmic Neutrinos | astro2020_swp_Vieregg_A1 |
| Vieregg, Abigail | University of Chicago | Fundamental Physics with High-Energy Cosmic Neutrinos | astro2020_swp_Vieregg_A2 |
| Voit, Mark | Michigan State University | Circumgalactic Gas and the Precipitation Limit | astro2020_swp_Voit_M |
| Vos, Johanna | American Museum of Natural History | The L/T Transition | astro2020_swp_Vos_J |
| Vulic, Neven | NASA Goddard Space Flight Center | Time Domain Studies of Neutron Star and Black Hole Populations: X-ray Identification of Compact Object Types | astro2020_swp_Vulic_N |
| Wadiasingh, Zorawar | NASA Goddard Space Flight Center | Magnetars as Astrophysical Laboratories of Extreme Quantum Electrodynamics: The Case for a Compton Telescope | astro2020_swp_Wadiasingh_Z |
| Walker, Stephen | NASA Goddard Space Flight Center | Unveiling the Galaxy Cluster - Cosmic Web Connection with X-ray observations in the Next Decade | astro2020_swp_Walker_S |
| Walter, Fabian | MPIA/NRAO | The evolution of the cosmic molecular gas density | astro2020_swp_Walter_F |

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| Wang, Ji | The Ohio State University | New Frontiers for Terrestrial-sized to Neptune-sized Exoplanets In the Era of Extremely Large Telescopes | astro2020_swp_Wang_J |
| Wang, Lifan | Texas A&M University | JWST: Probing the Epoch of Reionization with a Wide Field Time-Domain Survey | astro2020_swp_Wang_L |
| Wang, Q. Daniel | University of Massachusetts Amherst | The Panchromatic Circumgalactic Medium | astro2020_swp_Wang_Q |
| Wang, Yun | California Institute of Technology | Illuminating the dark universe with a very high density galaxy redshift survey over a wide area | astro2020_swp_Wang_Y |
| Weinberger, Alycia | Carnegie DTM | A Strategy for Understanding Planet Formation | astro2020_swp_Weinberger_A |
| Weisz, Daniel | University of California, Berkeley | Near-Field Cosmology with the Lowest-Mass Galaxies | astro2020_swp_Weisz_D |
| Wheeler, J. Craig | The University of Texas at Austin | ELT Contributions to Tidal Disruption Events | astro2020_swp_Wheeler_J1 |
| Wheeler, J. Craig | The University of Texas at Austin | ELT Contributions to The First Explosions | astro2020_swp_Wheeler_J2 |
| White, Stephen | Air Force Research Laboratory | The Importance of Synoptic Solar Radio Observations | astro2020_swp_White_S |
| Williams, Benjamin | University of Washington | Far Reaching Science with Resolved Stellar Populations in the 2020s | astro2020_swp_Williams_B1 |
| Williams, Brian | NASA GSFC | Future X-ray Studies of Supernova Remnants | astro2020_swp_Williams_B2 |
| Williams, David | University of California Santa Cruz | Probing Extreme Environments with Very-High-Energy Gamma Rays | astro2020_swp_Williams_D |
| Windhorst, Rogier | Arizona State University | On the observability of individual Population III stars and their stellar-mass black hole accretion disks through cluster caustic transits | astro2020_swp_Windhorst_R |
| Wolf, Eric | University of Colorado | The Importance of 3D General Circulation Models for Characterizing the Climate and Habitability of Terrestrial Extrasolar Planets. | astro2020_swp_Wolf_E |
| Wolff, Michael | Space Science Division, Naval Research Laboratory | The Physics of Accretion Onto Highly Magnetized Neutron Stars | astro2020_swp_Wolff_M |
| Wolk, Scott | Smithsonian Astrophysical Observatory | Understanding Galactic Star Formation with Next Generation X-ray Spectroscopy and Imaging | astro2020_swp_Wolk_S1 |
| Wolk, Scott | Smithsonian Astrophysical Observatory | X-ray Studies of Exo&SS | astro2020_swp_Wolk_S2 |
| Wong, Michael H. | UC Berkeley | Solar system Deep Time-Surveys of atmospheres, surfaces, and rings | astro2020_swp_Wong_M |
| Wood-Vasey, Michael | University of Pittsburgh | Type Ia Supernova Cosmology with TSO | astro2020_swp_Wood-Vasey_M |
| Wright, Jason | Penn State University | Searches for Technosignatures in Astronomy and Astrophysics | astro2020_swp_Wright_J1 |

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| Wright, Jason | Penn State University | Technosignatures in the Thermal Infrared | astro2020_swp_Wright_J2 |
| Wright, Jason | Penn State University | Technosignatures in Transit | astro2020_swp_Wright_J3 |
| Wrobel, Joan | National Radio Astronomy Observatory | Intermediate-Mass Black Holes in Extragalactic Globular Clusters | astro2020_swp_Wrobel_J |
| Yan, Huirong | DESY & University of Potsdam | Precision measurement of magnetic field from near to far, from fine to large scales in ISM | astro2020_swp_Yan_H |
| Yee, Jennifer | Center for Astrophysics \| Harvard & Smithsonian | The Scientific Context of WFIRST, Microlensing in the 2020s | astro2020_swp_Yee_J |
| Yoachim, Peter | University of Washington | LSST Narrowband Filters | astro2020_swp_Yoachim_P |
| Youngblood, Allison | NASA Goddard Space Flight Center | EUV influences on exoplanet atmospheric stability and evolution | astro2020_swp_Youngblood_A1 |
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| Yu, Nan | Jet Propulsion Laboratory | Exploring Dark Energy and Gravity in Space Laboratories | astro2020_swp_Yu_N |
| Zaritsky, Dennis | University of Arizona | Emission Line Mapping of the Circumgalactic Medium of Nearby Galaxies | astro2020_swp_Zaritsky_D |
| Zasowski, Gail | University of Utah | High-Dimensional Dust Mapping | astro2020_swp_Zasowski_G |
| Zellem, Robert | Jet Propulsion Laboratory, California Institute of Technology | Engaging Citizen Scientists to Keep Transit Times Fresh and Ensure the Efficient Use of Transiting Exoplanet Characterization Missions | astro2020_swp_Zellem_R |
| Zemcov, Michael | Rochester Institute of Technology | Opportunities for Astrophysical Science from the Inner and Outer Solar System | astro2020_swp_Zemcov_M |
| Zezas, Andreas | Center for Astrophysics \| Harvard & Smithsonian | X-ray binaries: laboratories for understanding the evolution of compact objects from their birth to their mergers | astro2020_swp_Zezas_A |
| Zingale, Michael | Stony Brook University | MMA SAG: Thermonuclear Supernovae | astro2020_swp_Zingale_M |
| Zoghbi, Abderahmen | University of Michigan | Supermassive Black Hole Spin and Reverberation | astro2020_swp_Zoghbi_A |