

Monday, January 13, 2025 | 9:00 AM ET - 10:00 AM ET

Session Title

Star Clusters

Session Type

iPoster

Room

Prince George's Exhibit Hall CD

Presentations

An HST survey of star clusters in NGC 7320

Michael Rodruck, Randolph-Macon College;
Rebecca Sauls, Randolph-Macon College.

PAH Marks the Spot: Digging for Buried Clusters in Nearby Star-forming Galaxies The Embedded Cluster Mass and Luminosity Functions

Samuel Crowe, University of Virginia; Elisabeth Brann, Bryn Mawr; Kaycee Conder, U. Wyoming; Sumitra Dhileepkumar, U. Utah; Nicole Imming, Rice University; Emilio Mendez, Cal Poly Pomona; Zachary Pleska, Lycoming College; Kelsey Sako, Cal Poly Humboldt; Gabrielle Graham, University of Wyoming; Chase Smith, University of Wyoming; Daniel Dale, University of Wyoming; Dave Thilker, Johns Hopkins; Stephen Hannon, MPIA; Henry Kobulnicky, University of Wyoming; PHANGS.

PAH Marks the Spot: Digging for Buried Clusters in Nearby Star-forming Galaxies – Analyzing Machine Learning Accuracy with Buried Star Clusters in PHANGS Cycle 1 Galaxies

Elisabeth Brann, Bryn Mawr College; Kaycee Conder, University of Wyoming; Samuel Crowe, University of Virginia; Sumitra Dhileepkumar, The University of Utah; Nicole Imming, Rice University; Emilio Mendez, Cal Poly Pomona; Zachary Pleska, Lycoming College; Kelsey Sako, Cal Poly Humboldt; Gabrielle Graham, University of Wyoming; Chase Smith, University of Wyoming; Daniel Dale, University of Wyoming; David Thilker, Johns Hopkins University; Stephen Hannon, University of California, Riverside; Henry Kobulnicky, University of Wyoming; PHANGS.

Formation of Black Hole-White Dwarf X-ray Binaries in Globular Clusters

Yi Wei Yang, California Institute of Technology; Kyle Kremer, California Institute of Technology.

Causes of Ellipticity in Milky Way Globular Clusters

Daniel Schmidt, Liberty University; Sebastian Kamann, Liverpool-John Moores University.

The formation of globular cluster stellar streams from molecular cloud encounters

Aiden Cloud, Columbia University; Colin Holm-Hansen, University of Michigan; Sarah Pearson, University of Copenhagen; Mordecai-Mark Mac Low, American Museum of Natural History.

PAH Marks the Spot: Digging for Buried Clusters in Nearby Star-forming Galaxies - Spatial Distributions of Young Embedded Star Clusters

Nicole Imming, Rice University; Elisabeth Brann, Bryn Mawr College; Kaycee Conder, University of Wyoming; Samuel Crowe, University of Virginia; Sumitra Dhileepkumar, The University of Utah; Emilio Galindo Mendez, Cal Poly Pomona; Zachary Pleska, Lycoming College; Kelsey Sako, Cal Poly Humboldt; Gabrielle Graham, University of Wyoming; Chase Smith, University of Wyoming; Daniel Dale, University of Wyoming; David Thilker, Johns Hopkins University; Stephen Hannon, University of California, Riverside; Henry Kobulnicky, University of Wyoming; PHANGS.

X-ray and Kinematic Investigation of Nearby Young Moving Group Candidates with eRASS and Gaia

Ryan Butler, Rochester Institute of Technology; Joel Kastner, Rochester Institute of Technology; Attila Varga, Rochester Institute of Technology; Thomas Skillman, Immersive Science LLC.

PAH Marks the Spot: Digging for Buried Clusters in Nearby Star-forming Galaxies and Using Machine Learning on PHANGS Cycle 2 Galaxies

Kelsey Sako, Cal Poly Humboldt; Elizabeth Brann, Bryn Mawr College ; Kaycee Conder, University of Wyoming; Samuel Crowe, University of Virginia; Sumitra Dhileepkumar, The University of Utah; Nicole Imming, Rice University; Emilio Galindo Mendez, Cal Poly Pomona ; Zachary Pleska, Lycoming College; Gabrielle Graham, University of Wyoming; Chase Smith, University of Wyoming; Daniel Dale, University of Wyoming; David Thilker, Johns Hopkins University; Stephen Hannon, University of California, Riverside; Henry Kobulnicky, University of Wyoming; PHANGS.

An IR Search for Star Clusters in NGC 7320 with JWST

Savannah Jones, Randolph Macon College; Michael Rodruck, Randolph Macon College.

PAH Marks the Spot: Digging for Buried Clusters in Nearby Star-forming Galaxies - *Ages and Extinctions for Embedded Clusters*

Sumitra Dhileepkumar, The University of Utah; Elisabeth Brann, Bryn Mawr College; Kaycee Conder, University of Wyoming; Samuel Crowe, University of Virginia; Nicole Imming, Rice University; Emilio Galindo Mendez, Cal Poly Pomona; Zachary Pleska, Lycoming College; Kelsey Sako, Cal Poly Humboldt; Gabrielle Graham, University of Wyoming; Chase Smith, University of Wyoming; Daniel Dale, University of Wyoming; David Thilker, Johns Hopkins University; Stephen Hannon, University of California, Riverside; Henry Kobulnicky, University of Wyoming; PHANGS.

PAH Marks the Spot: Digging for Buried Clusters in Nearby Star-forming Galaxies. Setting up the Zooniverse Project

Emilio Mendez, Cal Poly Pomona; Elisabeth Brann, Bryn Mawr College; Kaycee Conder, University of Wyoming; Samuel Crowe, University of Virginia; Sumitra Dhileepkumar, The University of Utah; Nicole Imming, Rice University; Zachary Pleska, Lycoming College; Kelsey Sako, Cal Poly Humboldt; Gabrielle Graham, University of Wyoming; Chase Smith, University of Wyoming; Daniel Dale, University of Wyoming; Dave Thilker, Johns Hopkins; Stephen Hannon, University of California, Riverside; Henry Kobulnicky, University of Wyoming; PHANGS, University of Wyoming.

Resolved stellar populations in the bubbles of NGC 628

Kaitlyn Schultz, University of Wyoming; Hwi Hyun Kim, Gemini Observatory / NSF's NOIRLab; Daniel Dale, University of Wyoming; Elizabeth Watkins, Universität Heidelberg - Astronomisches Rechen-Institut; PHANGS Collaboration.

PAH Marks the Spot: Digging for Buried Clusters in Nearby Star-forming Galaxies Investigating the Influencing Factors of Machine Learning Identification Accuracy

Kaycee Conder, University of Wyoming; Elisabeth Brann, Bryn Mawr College; Samuel Crowe, University of Virginia; Sumitra Dhileepkumar, The University of Utah; Nicole Imming, Rice University; Emilio Mendez, Cal Poly Pomona; Zachary Pleska, Lycoming College; Kelsey Sako, Cal Poly Humboldt; Gabrielle Graham, University of Wyoming; Chase Smith, University of Wyoming; Daniel Dale, University of Wyoming; David Thilker, Johns Hopkins University; Stephen Hannon, Max Planck Institute for Astronomy; Henry Kobulnicky, University of Wyoming; PHANGS.

A Multimedia Approach to Star Clusters in M31: Keck Adaptive Optics, Hubble Space Telescope, and 3D models

Steven Umbarger, University of California, Merced; Faiyaz Aman, Scholastica School; Khedaar Kashyap, Leland High School; Andrés Marcos, The American School Foundation; Gwyneth Tenn, Punahou School; Amy Xing, Shady Side Academy; Aubrey Behnke, JSerra Catholic High School; Benjamin Williams, Univ. of Washington; Philip Hinz, University of California, Santa Cruz; Puragra Guhathakurta, University of California, Santa Cruz.

PAH Marks the Spot: Digging for Buried Clusters in Nearby Star-forming Galaxies - What Can They Tell Us about the Global Properties of Galaxies?

Zachary Pleska, Lycoming College; Elisabeth Brann, Bryn Mawr College; Kaycee Conder, University of Wyoming; Samuel Crowe, University of Virginia; Sumitra Dhileepkumar, The University of Utah; Nicole Imming, Rice University; Emilio Galindo Mendez, Cal Poly Pomona; Kelsey Sako, Cal Poly Humboldt; Gabrielle Graham, University of Wyoming; Chase Smith, University of Wyoming; Daniel Dale, University of Wyoming; Dave Thilker, Johns Hopkins; Stephen Hannon, MPE; Henry Kobulnicky, University of Wyoming; PHANGS.

Probing the Rotation and Activity of Little Beehive Cluster Members with Gaia, TESS, and Chandra

Benjamin Ramsey, Rochester Institute of Technology; Joel Kastner, Rochester Institute of Technology; Ryan Butler, Rochester Institute of Technology; Alexander Binks, University of Tübingen; Tom Skillman, Immersive Science LLC.

Age-Dating the Ursa Major Moving Group

M Clark, University of Wisconsin - Madison; Julia Sheffler, University of Wisconsin Madison; Melinda Soares-Furtado, University of Wisconsin-Madison; Adam Distler, University of Wisconsin-Madison.

**An Analysis of X-ray Point Source
Populations Outside D25 of Nearby
Galaxies**

Anthony Santini, Wesleyan University; Roy Kilgard,
Wesleyan University.

**Analyzing Elemental Abundance
Trends Across the Giant Branch in
APOGEE Globular Clusters**

Jaylon Lockett, Angelo State University; Kenneth
Carrell, Angelo State University; Rachael Beaton,
STScI.