

Session Program

9-13 Sept 2019



CEMP Stars as Probes of First-Star Nucleosynthesis, the IMF, and Galactic Assembly

OBSERVATIONAL APPROACH: CEMP STARS, FIRST STARS, FIRST GALAXIES

University of Geneva A100 Sciences II, A100 Sciences II, 30 quai Ernest Ansermet, 1205 Geneva
30, quai Ernest Ansermet 1205 Geneva

Monday 9 September

09:10

OBSERVATIONAL APPROACH: CEMP STARS, FIRST STARS, FIRST GALAXIES: 1 (Chair: Cristina Chiappini)

Session | Location:

09:10-09:40 **CEMP Stars - Past Perspectives and Future Objectives**

Speaker

Prof. Timothy Beers

09:40-10:10 **Observations of very iron-poor stars**

Speaker

Dr Piercarlo Bonifacio

10:10-10:40 **3D non-LTE chemical abundance measurements for CEMP stars**

Speaker

anish amarsi

10:40

11:00

OBSERVATIONAL APPROACH: CEMP STARS, FIRST STARS, FIRST GALAXIES: 2 (Chair: Camilla Hansen)

Session | Location:

11:00-11:20

Accurate abundances at the lowest detected iron abundance: SMSS 1605-1443

Speaker

Thomas Nordlander

11:20-11:50 **Looking for the most metal-poor stars with large surveys**

Speaker

Dr David Aguado

11:50

14:00

OBSERVATIONAL APPROACH: CEMP STARS, FIRST STARS, FIRST GALAXIES: 3 (Chair: David Yong)

Session | Location:

14:00-14:30

CEMP Stars as Probes of First-Star Nucleosynthesis, the IMF, and Galactic Assembly

Speaker

Dr Starckenburg Else

14:30-14:50 **Tracing the formation of the Milky Way through UMP and EMP stars**

Speaker

Federico Sestito

14:50-15:10 **The Metallicity Gradient in the Outer Halo of the Milky Way**

Speaker

Sarah Dietz

15:10-15:30

Observations of 200 New CEMP Stars from the South African Large Telescope

Speaker

Kaitlin Rasmussen

15:30

16:00

OBSERVATIONAL APPROACH: CEMP STARS, FIRST STARS, FIRST GALAXIES: 4 (Chair: Thomas Masseron)

Session | Location:

16:00-16:30

CEMP-no and the early chemical enrichment of the Milky Way

Speaker

Dr Cristina Chiappini

Location

16:30-16:50

3D carbon and oxygen abundances in CEMP stars from molecular lines

Speaker

Dr A. Kučinskas

Location

16:50

Tuesday 10 September

09:00

OBSERVATIONAL APPROACH: CEMP STARS, FIRST STARS, FIRST GALAXIES: 5 (Chair: Tim Beers)

Session | Location:

09:00–09:30

Very Iron-poor Stars and an Update of the SkyMapper Extremely Metal-Poor Star Program

Speaker

Prof. David Yong

09:30–10:00

CEMP stars in dwarf galaxies

Speaker

Dr Asa Skuladottir

10:00–10:20

Abundances and Kinematics of CEMP stars - A new classification

Speaker

Camilla Juul Hansen

10:20

10:50

OBSERVATIONAL APPROACH: CEMP STARS, FIRST STARS, FIRST GALAXIES: 6 (Chair: Stefania Salvadori)

Session | Location:

10:50–11:10

Binarity among CEMP-no stars: an indication of multiple formation pathways?

Speaker

Ms Anke Arentsen

Location

11:10–11:30

Seeking the origin of CEMP-r/s stars

Speaker

Prof. Birgitta Nordström

Location

11:30–11:50

Multiplicity of the first stars from machine learning-based classification of stellar fossils

Speaker

Tilman Hartwig

Location

11:50–12:10

The binarity of dwarf carbon stars and their possible role as main sequence counterparts to CEMP stars

Speaker

Mr Lewis Whitehouse

12:10
14:00
15:20
15:50
16:20

Location

OBSERVATIONAL APPROACH: CEMP STARS, FIRST STARS, FIRST GALAXIES: 7 (Chair: Arunas Kucinkas)
Session | Location:

14:00-14:20 **Origin of CEMP-no morphology in the Milky Way halo**
Speaker
Jinmi Yoon
Location

14:20-14:40
Dynamical Relics with Chemically Peculiar Stars from Ancient Small Dwarf Galaxies
Speaker
Dr Zhen Yuan
Location

14:40-15:00
Chemodynamical Analysis of Six Low-Metallicity Stars in the Halo System of the Milky Way
Speaker
Mr Mohammad Mardini
Location

15:00-15:20 **Constraining nucleosynthesis in CEMP-s progenitors using Fluorine**
Speaker
Aldo Mura Guzman
Location

OBSERVATIONAL APPROACH: CEMP STARS, FIRST STARS, FIRST GALAXIES: 7 continued (Chair: Arunas Kucinkas)
Session | Location:

15:50-16:20
Chemical enrichment and ionizing escape fraction from observations of GRBs
Speaker
Prof. Nial Tanvir
Location