

ChETEC Split Period 4 Main Event



Thursday 3 September 2020 - Friday 4 September 2020

Other Institutes

Scientific Programme

DRAFT PROGRAMME

All times are Split (CEST, e.g. Paris) time

Thursday 3rd September**Morning:**

8h30: zoom room opens

ChETEC Action overview and status [including first part of MC meeting]

9h Welcome and agenda overview (Raphael Hirschi, Action chair)

9h15-9h30: Action overview and status (Raphael Hirschi)

~09h30 STSM update (Igor Gasparic, STSM coordinator)

~09h40 grant holder update (Mafalda Basto, FCiencias)

~09h50 COST update (Mafalda Quintas)

~10h00 ITC/ECI update (Raphael on behalf of sevdalina Dimitrova, Pan-European coordinator)

~10h10 Coffee break

Tools, techniques, knowledge exchange and innovation (WG4) session

10h30-10h45: Daniel Bemmerer (HZDR): WG4 status, update, and way forward

10h45-11h15: Uta Bilow (TU Dresden): Particle physics outreach in Netzwerk Teilchenwelt (Germany) as a possible blueprint for nuclear astrophysics outreach

11h15-11h45: Konrad Schmidt (HZDR): WG4 Knowledge Hubs on ChETEC website

11h45-12h15: Science and Journalism: a non-naive view (Dr Michele Catanzaro)

12h15-13h00: General discussion

13h-14h lunch break

Afternoon:**Astronomical observations and interpretation (WG3) session**

14h- about 16h

14.00-14.10 Camilla J. Hansen - WG3 - a short update

14.10-14.25 Arunas Kucinskas - Future observations, Be, and 1.5/3D/NLTE

14.25-14.45 Tim Beers - RPA

14.45-15.00 Andreas Korn - Stellar archaeology in the Gaia era

15.00-15.20 Gabriele Cescutti - MINCE

15.20-15.40 Moritz Reichert - Dwarf galaxies

15.40-16.00 Jaroslav Merc - Symbiotic binaries

(Further questions)

~16h: coffee break

Dissemination session

17h00: Overview (Jordi Jose, dissemination coordinator)

17h10: Booklet/Brochure (Andreas Korn)

17h20: eBook (Raphael Hirschi)

17h30: Infographs (Zsolt Fulop)

17h40: Videos (Jordi Jose)

17h50: Wikipedia (Roland Diehl)

Friday 4th September

Morning

8h30: zoom room opens

Modelling pipelines connecting nuclear processes to astronomical observables (WG2) session

09.00-09.05 Jacqueline den Hartogh - WG2 - a short update

09.05-09.25 Anu Kankainen - Nuclear reactions affecting the Al26 abundance in the Galaxy

09.25-09.40 Benjamin Wehmeyer - Galactic chemical evolution of r-process elements

09.40-09.55 Zhivko Stoyanov - Analytical determination of the equation of state of magnetar outer crust

09.55-10.10 Etienne Kaiser - Ledoux or Schwarzschild, does it matter?

10.10-10.25 Laura Scott - Convective core entrainment in 1D main sequence stellar models

10.25-10.40 Borbala Cseh - Comparison of individual Barium star observations and AGB nucleosynthesis models

10.40-11.00 Umberto Battino - p-process Nucleosynthesis in Type Ia supernovae: the role of the progenitor

~11h00: coffee break

11h30 "zoom" group picture

Planning for period 4 and beyond [including second part of MC meeting]

11h30: Period 4 planning (Raphael Hirschi)

11h50: Wisdom from synergy agents (Roland Diehl and Friedel Thielemann)

12h00: IReNA network of networks (Hendrik Schatz, MSU, IReNA PI)

12h10: General discussion

13h-14h lunch break

Afternoon

Nuclear data for astrophysics: needs, coordination and dissemination (WG1) session

14:00-14:15 A. Guglielmetti: "WG1: achievements and perspectives"

14:15-14:35 R. Depalo "Study of the $^{22}\text{Ne}(p,\gamma)^{23}\text{Na}$ reaction at the energies of type Ia supernovae"

14:35-14:55 G. Gyurky and G. F. Ciani "Astrophysically important reactions on carbon isotopes: target characterizations and cross section measurements"

14:55-15:15 D. Fahlin Stromberg "Impact of forbidden electron captures in intermediate mass stars"

15:15-15:45 P. Adsley and U. Battino "Re-evaluating the $^{22}\text{Ne}+\alpha$ reaction rates"

~16h00: coffee break

Gender in Science and in Nuclear Astrophysics 16:30-18:30

Chairpersons: Daniel Bemmerer and Andreas Korn

16:30-17:00 Introduction by Prof. Sherry Yennello (Director of the Cyclotron Institute, Texas A&M University, USA)

17:00-17:30 The Gender Gap in Science project, presented by Prof. Marie-Francoise Roy (Institut de recherche mathématique de Rennes, France)

17:30-17:45 Q&A

17:45-17:55 Report by Maria Lugaro on ChETEC gender statistics and logistic of the calendar on "Women scientists who made nuclear astrophysics"

17:55-18:15 Presentation of the calendar by Christine Hampton

18:15-18:30 Q&A