Inaugural workshop on Nuclear Astrochemistry

Report of Contributions

 $Development \ of \ interdisciplinary \ p \ldots$

Contribution ID: 1

Type: not specified

Development of interdisciplinary programs

Third working groups meeting

Contribution ID: 2

Type: not specified

Third working groups meeting

Presentation by working groups

Contribution ID: 3

Type: not specified

Presentation by working groups

Discussion+closing remarks

Contribution ID: 4

Type: not specified

Discussion+closing remarks

Departure

Contribution ID: 5

Type: not specified

Departure

Nuclear burning recorded in mete ...

Contribution ID: 6

Type: not specified

Nuclear burning recorded in meteorites as a tracer of the birth of the Solar System

Presenter: LUGARO, Maria (Konkoly Observatory)

Welcome from ECT* Director, Gert ...

Contribution ID: 7

Type: not specified

Welcome from ECT* Director, Gert Aarts

Monday, 26 February 2024 09:30 (10 minutes)

Goals of the workshop

Contribution ID: 8

Type: not specified

Goals of the workshop

Monday, 26 February 2024 09:40 (10 minutes)

Primary authors: MASHA, Eliana (Helmholtz-Zentrum Dresden-Rossendorf e.V. (HZDR)); MA-SON, Nigel (University of Kent and Europlanet)

Co-author: BEMMERER, Daniel (HZDR and ChETEC)

Presenter: MASON, Nigel (University of Kent and Europlanet)

Focus on what we know (don't kn...

Contribution ID: 9

Type: not specified

Focus on what we know (don't know) of evolution of life on Earth

Monday, 26 February 2024 09:50 (50 minutes)

Presenter: RIMMER, Paul (University of Cambridge)

Early chemical tracers in the Milky ...

Contribution ID: 10

Type: not specified

Early chemical tracers in the Milky Way

Monday, 26 February 2024 10:40 (40 minutes)

Presenter: HANSEN, Camilla Juul (IAP, Goethe University Frankfurt)

Cutting-Edge Telescopes in the Qu...

Contribution ID: 11

Type: not specified

Cutting-Edge Telescopes in the Quest for Space molecules

Monday, 26 February 2024 11:50 (40 minutes)

Presenter: QUITIAN-LARA, Dr Heidy Mayerly (University of Kent)

Laboratory for Underground Nucl...

Contribution ID: 12

Type: not specified

Laboratory for Underground Nuclear Astrophysics

Monday, 26 February 2024 14:00 (50 minutes)

Presenter: FERRARO, Federico (INFN-LNGS)

Nuclear Astrophysics at TRIUMF

Contribution ID: 13

Type: not specified

Nuclear Astrophysics at TRIUMF

Monday, 26 February 2024 14:50 (40 minutes)

Presenter: WILLIAMS, Matthew (University of Surrey)

Discussions

Contribution ID: 14

Type: not specified

Discussions

Monday, 26 February 2024 16:00 (40 minutes)

Working groups formation

Contribution ID: 15

Type: not specified

Working groups formation

Monday, 26 February 2024 16:40 (40 minutes)

The 2024 state of the art on the Sta ...

Contribution ID: 16

Type: not specified

The 2024 state of the art on the Standard Solar Model

Tuesday, 27 February 2024 09:30 (50 minutes)

Presenter: SERENELLI, Aldo (Institute of Space Sciences (ICE, CSIC))

Tracing Solar System evolution th ...

Contribution ID: 17

Type: not specified

Tracing Solar System evolution through isotope varations in meteorites

Tuesday, 27 February 2024 10:20 (40 minutes)

Presenter: EK, Mattias (ETH Zürich)

The potential roles of meteorites in ...

Contribution ID: 18

Type: not specified

The potential roles of meteorites in the origins of life on Earth

Tuesday, 27 February 2024 11:30 (40 minutes)

Presenter: HICKMAN-LEWIS, Keyron

Morning session discussion

Contribution ID: 19

Type: not specified

Morning session discussion

Morning session discussion

Contribution ID: 20

Type: not specified

Morning session discussion

Tuesday, 27 February 2024 12:10 (20 minutes)

Sub-Coulomb nuclear reactions an ...

Contribution ID: 21

Type: not specified

Sub-Coulomb nuclear reactions and spectroscopy using the Trojan Horse Method

Tuesday, 27 February 2024 14:00 (50 minutes)

Presenter: Prof. TUMINO, Aurora (Facoltà di Architettura e Ingegneria Università degli Studi di Enna "Kore" & INFN-LNS)

Our present understanding of the ...

Contribution ID: 22

Type: not specified

Our present understanding of the 3He(a,g)7Be key astrophysical nuclear reaction

Tuesday, 27 February 2024 14:50 (40 minutes)

Presenter: SZÜCS, Tamás (Atomki)

Big Bang nucleosynthesis studied...

Contribution ID: 23

Type: not specified

Big Bang nucleosynthesis studied at Felsenkeller and CRYRING

Tuesday, 27 February 2024 16:00 (40 minutes)

Presenter: MASHA, Eliana (Helmholtz-Zentrum Dresden-Rossendorf e.V. (HZDR))

Galactic Chemical Evolution with ...

Contribution ID: 24

Type: not specified

Galactic Chemical Evolution with short lived radioactive Isotope

Tuesday, 27 February 2024 16:40 (40 minutes)

Presenter: WEHMEYER, Benjamin (University of Wroclaw)

First working groups meeting

Contribution ID: 25

Type: not specified

First working groups meeting

Tuesday, 27 February 2024 17:20 (1 hour)

Ion induced proceses in te ISM and ...

Contribution ID: 26

Type: not specified

Ion induced processes in te ISM and planetary and satellite atmospheres

Wednesday, 28 February 2024 09:30 (50 minutes)

Presenter: GEPPERT, Wolf (Stockholm University)

Astrochemistry at large scale facili ...

Contribution ID: 27

Type: not specified

Astrochemistry at large scale facilities

Wednesday, 28 February 2024 10:20 (40 minutes)

Presenter: IOPPOLO, Sergio (Aarhus University)

Photochemistry studies on a simul...

Contribution ID: 28

Type: not specified

Photochemistry studies on a simulation chamber: From surfaces to biomolecules.

Wednesday, 28 February 2024 11:30 (40 minutes)

Presenter: MATEO MARTI, Eva (Centro de Astrobiología (CSIC/INTA))

Morning session discussion

Contribution ID: 29

Type: not specified

Morning session discussion

Wednesday, 28 February 2024 12:10 (20 minutes)

The chemistry of planet formation

Contribution ID: 30

Type: not specified

The chemistry of planet formation

Wednesday, 28 February 2024 14:00 (50 minutes)

Presenter: BITSCH, Bertram (University College Cork)

Astrochemistry: from stars to plan ...

Contribution ID: 31

Type: not specified

Astrochemistry: from stars to planets

Wednesday, 28 February 2024 14:50 (40 minutes)

Presenter: WIESENFELD, Laurent (Laboratoire Aime Cotton CNRS Universite Paris-Saclay)

Predicting potentially relevant mo ...

Contribution ID: 32

Type: not specified

Predicting potentially relevant molecules in astrochemistry with quantum chemical methods

Wednesday, 28 February 2024 16:00 (40 minutes)

Presenter: FANTUZZI, Felipe (University of Kent)

Systems Chemistry applied to stud...

Contribution ID: 33

Type: not specified

Systems Chemistry applied to study of origins of life

Wednesday, 28 February 2024 16:40 (40 minutes)

Presenter: HAILEY, Perry (University of Kent)

Afternoon session discussion

Contribution ID: 34

Type: not specified

Afternoon session discussion

Wednesday, 28 February 2024 17:20 (1 hour)

Nuclear burning recorded in mete ...

Contribution ID: 35

Type: not specified

Nuclear burning recorded in meteorites as a tracer of the birth of the Solar System

Thursday, 29 February 2024 09:30 (50 minutes)

Presenter: LUGARO, Maria (Konkoly Observatory)

Hadean Earth recipes for the emer ...

Contribution ID: 36

Type: not specified

Hadean Earth recipes for the emergence of life

Thursday, 29 February 2024 10:20 (40 minutes)

Presenter: MOJZSIS, Stephen (HUN-REN, CSFK Research Centre for Astronomy & Earth Sciences)

Can interstellar asymmetric photo ...

Contribution ID: 37

Type: not specified

Can interstellar asymmetric photochemistry explain the origins of biomolecular homochirality on Earth?

Thursday, 29 February 2024 11:30 (40 minutes)

Presenter: BOCKOVÁ, Jana (CNES, Institut de Chimie de Nice, Université Côte d'Azur)

Morning session discussion

Contribution ID: 38

Type: not specified

Morning session discussion

Thursday, 29 February 2024 12:10 (20 minutes)

Investigating Other Worlds

Contribution ID: 39

Type: not specified

Investigating Other Worlds

Thursday, 29 February 2024 14:00 (50 minutes)

Presenter: RAUER, Heike (DLR, Institut für Planetenforschung)

Molecular complexity in space, fro ...

Contribution ID: 40

Type: not specified

Molecular complexity in space, from the interstellar medium to planetary atmospheres

Thursday, 29 February 2024 14:50 (40 minutes)

Presenter: BALUCANI, Nadia (DCBB - Università degli Studi di Perugia)

Impact of recently measured nucle ...

Contribution ID: 41

Type: not specified

Impact of recently measured nuclear reaction rates on the nucleosynthesis of 26Al in stars

Thursday, 29 February 2024 16:00 (40 minutes)

Presenter: BATTINO, Umberto

Second working groups meeting

Contribution ID: 42

Type: not specified

Second working groups meeting

Thursday, 29 February 2024 16:40 (1h 40m)

Development of interdisciplinary p ...

Contribution ID: 43

Type: not specified

Development of interdisciplinary programs

Friday, 1 March 2024 09:30 (50 minutes)

Third working groups meeting

Contribution ID: 44

Type: not specified

Third working groups meeting

Friday, 1 March 2024 10:20 (40 minutes)

Presentation by working groups

Contribution ID: 45

Type: not specified

Presentation by working groups

Friday, 1 March 2024 11:30 (40 minutes)

Discussion+closing remarks

Contribution ID: 46

Type: not specified

Discussion+closing remarks

Friday, 1 March 2024 12:10 (20 minutes)

Primary authors: BEMMERER, Daniel (HZDR and ChETEC); MASHA, Eliana (Helmholtz-Zentrum Dresden-Rossendorf e.V. (HZDR)); MASON, Nigel (University of Kent, UK, Atomki, Debrecen and Europlanet)

Presenters: BEMMERER, Daniel (HZDR and ChETEC); MASHA, Eliana (Helmholtz-Zentrum Dresden-Rossendorf e.V. (HZDR)); MASON, Nigel (University of Kent, UK, Atomki, Debrecen and Europlanet)