Light clusters in nuclei and nuclear matter: Nuclear structure and decay, heavy ion collisions, and astrophysics

Report of Contributions

Contribution ID: **1** Type: **not specified**

Cluster excited states probed by alpha and proton inelastic scattering

Monday, 2 September 2019 09:45 (45 minutes)

Presenter: KANADA-EN'YO, Yoshiko

Contribution ID: **2** Type: **not specified**

Isoscalar transitions and alpha cluster structures

Monday, 2 September 2019 11:00 (30 minutes)

Presenter: ITO, Makoto

Contribution ID: **3** Type: **not specified**

Ab initio study of high-momentum physics in s-shell nuclei

Monday, 2 September 2019 11:30 (30 minutes)

Presenter: LYU, Mengjiao

Contribution ID: **4** Type: **not specified**

Localization and clustering in atomic nuclei

Monday, 2 September 2019 12:00 (30 minutes)

Presenter: VRETENAR, Dario

Contribution ID: **5** Type: **not specified**

The role of clustering in structure and reactions of light nuclei

Monday, 2 September 2019 14:30 (45 minutes)

Presenter: NEFF, Thomas

Contribution ID: **6** Type: **not specified**

Alpha cluster condensates and dynamics of cluster formation

Monday, 2 September 2019 15:15 (45 minutes)

Presenter: FUNAKI, Yasuro

Contribution ID: **7** Type: **not specified**

Investigation of the 14C + α molecular configuration in 18O by means of transfer and sequential decay reaction

Monday, 2 September 2019 16:30 (30 minutes)

Presenter: HAN, Jiaxing

Contribution ID: **8** Type: **not specified**

Search for alpha-condensed state in 20Ne

Monday, 2 September 2019 17:00 (30 minutes)

Presenter: FUJIKAWA, Yuki

Contribution ID: **9** Type: **not specified**

Shape of light clustered nuclei

Monday, 2 September 2019 17:30 (30 minutes)

Presenter: KIMURA, Masaaki

Contribution ID: **10** Type: **not specified**

Discussion (Kimura)

Monday, 2 September 2019 18:00 (30 minutes)

Presenter: KIMURA, Masaaki

Contribution ID: **11** Type: **not specified**

Alpha decay versus alpha clustering

Tuesday, 3 September 2019 09:00 (45 minutes)

Presenter: DELION, Doru-Sabin

Contribution ID: **12** Type: **not specified**

Calculation on alpha-decay half-lives of heavy nuclei

Tuesday, 3 September 2019 09:45 (45 minutes)

Presenter: REN, Zhongzhou

Contribution ID: **13** Type: **not specified**

Symmetry approach to clustering in nuclei

Tuesday, 3 September 2019 11:00 (30 minutes)

Presenter: IACHELLO, Francesco

Contribution ID: **14** Type: **not specified**

Alpha-cluster formation and decay in the quartetting wave function approach

Tuesday, 3 September 2019 11:30 (30 minutes)

Presenter: XU, Chang

Contribution ID: **15** Type: **not specified**

Some Progress on the New Double-Folding Potential and Alpha-Alpha Elastic Scattering

Tuesday, 3 September 2019 12:00 (30 minutes)

Presenter: BAI, Dong

Contribution ID: **16** Type: **not specified**

Theoretical challenges from an experimentalist's point of view

Tuesday, 3 September 2019 14:30 (45 minutes)

Presenter: KOKALOVA, Tzany

Contribution ID: **17** Type: **not specified**

Gamma decay width of the 3-1 state in 12C, and recent activities of the Kyoto-Osaka group

Tuesday, 3 September 2019 15:15 (45 minutes)

Presenter: KAWABATA, Takahiro

Contribution ID: **18** Type: **not specified**

Advances towards the measurement of gamma transitions in clustered states of 16O

Tuesday, 3 September 2019 16:30 (30 minutes)

Presenter: SANTA RITA, Pedro

Contribution ID: **19** Type: **not specified**

Nuclear reflection-asymmetry in cluster approach

Tuesday, 3 September 2019 17:00 (30 minutes)

Presenter: SHNEYDMAN, Timur

Contribution ID: **20** Type: **not specified**

Preliminary Experimental Results of the Molecular States in 16C

Tuesday, 3 September 2019 17:30 (30 minutes)

Presenter: LIU, Yang

Contribution ID: **21** Type: **not specified**

Discussion (Schuck)

Tuesday, 3 September 2019 18:00 (1 hour)

Presenter: SCHUCK, Peter

Contribution ID: **22** Type: **not specified**

Laboratory Studies of Dilute Nuclear Matter

Wednesday, 4 September 2019 09:00 (45 minutes)

Presenter: NATOWITZ, Joe

Contribution ID: **23** Type: **not specified**

Light cluster production in intermediate energy heavy-ion collisions

Wednesday, 4 September 2019 09:45 (45 minutes)

Presenter: WOLTER, Hermann

Contribution ID: **24** Type: **not specified**

A Nucleation Model Analysis of Neck emission yields in Heavy Ion-Reactions

Wednesday, 4 September 2019 11:00 (30 minutes)

Presenter: GAUTHIER, Jérome

Contribution ID: **25** Type: **not specified**

Experimental search for states analogous to the ^{12}C Hoyle state in heavier nuclei

Wednesday, 4 September 2019 11:30 (30 minutes)

Presenter: BARBUI, Marina

Contribution ID: **26** Type: **not specified**

Light clusters and pasta phases in warm stellar matter

Wednesday, 4 September 2019 12:00 (30 minutes)

Presenter: PAIS, Helena

Contribution ID: **27** Type: **not specified**

Nuclear clustering studied inside fragmentation cone of relativistic nuclei / Imaging of dissociation of relativistic nuclei in nuclear track emulsion

Wednesday, 4 September 2019 14:30 (45 minutes)

Presenter: PAVEL ZARUBIN / IRINA ZARUBINA

Contribution ID: **28** Type: **not specified**

Microscopic description of multi-clusters in light nuclei

Wednesday, 4 September 2019 15:15 (45 minutes)

Presenter: ZHOU, Bo

Contribution ID: **29** Type: **not specified**

Nuclear matter calculation with the tensor optimized Fermi sphere method

Wednesday, 4 September 2019 16:30 (30 minutes)

Presenter: YAMADA, Taiichi

Contribution ID: **30** Type: **not specified**

Nucleosynthesis in heavy-ion collisions at the LHC via the Saha equation

Wednesday, 4 September 2019 17:00 (30 minutes)

Presenter: GALLMEISTER, Kai

Contribution ID: **31** Type: **not specified**

Production of light clusters in generator THESEUS

Wednesday, 4 September 2019 17:30 (30 minutes)

Presenter: KOZHEVNIKOVA, Marina

Contribution ID: **32** Type: **not specified**

Discussion (Röpke)

Wednesday, 4 September 2019 18:00 (1 hour)

Presenter: RÖPKE, Gerd

Contribution ID: **33** Type: **not specified**

Opening

Monday, 2 September 2019 09:30 (15 minutes)

Presenter: ROEPKE, Gerd

Contribution ID: **34** Type: **not specified**

Cluster production in HIC at ALICE and STAR

Thursday, 5 September 2019 09:00 (45 minutes)

Presenter: DOENIGUS, Benjamin

Contribution ID: **35** Type: **not specified**

Thermal vs. coalescence model and production of light nuclei in relativistic heavy-ion collisions

Thursday, 5 September 2019 09:45 (45 minutes)

Presenter: MROWCZYNSKI, Stanislaw

Contribution ID: **36** Type: **not specified**

Light nuclei formation in heavy ion collisions measured with HADES

Thursday, 5 September 2019 11:00 (30 minutes)

Presenter: SZALA, Melanie

Contribution ID: **37** Type: **not specified**

Production of H and He isotopes in pA collision at a few GeV beam energy

Thursday, 5 September 2019 11:30 (30 minutes)

Presenter: PYSZ, Krzysztof

Contribution ID: **38** Type: **not specified**

From nuclear clusters to composite hadrons

Thursday, 5 September 2019 12:00 (30 minutes)

Presenter: BASTIAN, Niels-Uwe

Contribution ID: **39** Type: **not specified**

Fine structure of alpha decay from the time dependent pairing equations

Thursday, 5 September 2019 14:30 (45 minutes)

Presenter: MIREA, Mihail

Contribution ID: **40** Type: **not specified**

Quantum localisation and dilution effects on clusterisation

Thursday, 5 September 2019 15:15 (30 minutes)

Presenter: LASSERI, Raphael-David

Contribution ID: **41** Type: **not specified**

Investigation of α-like Quasimolecules in Heavy Nuclei

Thursday, 5 September 2019 16:45 (30 minutes)

Presenter: DUMITRESCU, Alexandru

Contribution ID: **42** Type: **not specified**

Description of nuclei in terms of pairs and quartets

Thursday, 5 September 2019 17:15 (30 minutes)

Presenter: BARAN, Virgil

Contribution ID: **44** Type: **not specified**

T.B.A.

Presenter: Prof. CSEH

Contribution ID: **45** Type: **not specified**

Clusters in nuclear matter: from nuclei in the laboratory to stars in the cosmos

Friday, 6 September 2019 09:00 (45 minutes)

Presenter: TYPEL, Stefan

Contribution ID: **46** Type: **not specified**

Weak reactions with light clusters in simulations of core-collapse supernovae

Friday, 6 September 2019 09:45 (45 minutes)

Presenter: FISCHER, Tobias

Contribution ID: **47** Type: **not specified**

Sensitivity of giant resonances energies to nuclear matter properties and the equation of state

Friday, 6 September 2019 11:00 (30 minutes)

Presenter: SHLOMO, Shalom

Contribution ID: **48** Type: **not specified**

Application of Feynman's Continual Integrals and Hyperspherical Functions to the Cluster Structure of Light Nuclei

Presenter: SAMARIN, Viacheslav

Contribution ID: **49** Type: **not specified**

Application of Feynman's Continual Integrals and Hyperspherical Functions to the Cluster Structure of Light Nuclei

Presenter: SAMARIN, Viacheslav

Contribution ID: **50** Type: **not specified**

Measurement of four-alpha decays near the four-alpha threshold energy in 16O

Thursday, 5 September 2019 15:45 (30 minutes)

Presenter: ITOH, Masatoshi

Contribution ID: **51** Type: **not specified**

Closure

Friday, 6 September 2019 11:30 (15 minutes)

Presenter: SCHUCK, Peter

Contribution ID: **52** Type: **not specified**

Blaschke discussion

Presenter: Prof. BLASCHKE, David

Contribution ID: **53** Type: **not specified**

Discussion Blaschke

Thursday, 5 September 2019 17:45 (1 hour)