

SUNDAY 8 July

Registration & “Welcome drink” - [Hall Caliste](#) 16h00 – 18h30

MONDAY 9 July

Welcome - [Ampithéâtre](#) 08h50 – 09h00

PLENARY SESSIONS (presentations 25+5 mins) - [Ampithéâtre](#)

Exotic systems: from anti-atom to hypernuclei *Chair: N. Kalantar* 09h00 - 10h30

P. Comini *The GBAR experiment and its positive antihydrogen ion*

Yuanning Gao *Pentaquark system at LHCb*

T. Nagae *Ξ -hypernuclei at J-PARC*

Coffee Break - [Espace réception](#) 10h30 – 11h00

Structure of the nucleon *Chair: G. Orlandini* 11h00 - 12h30

R. Pohl *Laser spectroscopy of muonic atoms and ions: Charge radii and polarizabilities of the lightest nuclei*

B. Pasquini *Imaging the partonic structure of the nucleon*

A.K. Opper *Final results from the Jefferson Lab Qweak Experiment*

Lunch 12h30 – 14h00

PARALLEL SESSIONS (presentations 20+5 mins & 15+4 mins – see detailed listings) - [Ateliers 1 - 4](#)

Parallel sessions I 14h00 - 16h00

[A1](#) FB_A&M (Session 1: Karr, Kolganova, Korobitsin, Sanayei, Skoromnik, Yakovlev) *Kezerashvili*

[A2](#) FB_Nucl&QCD (Session 1: Descouvemont, Baye, Ciani, Cavanna, Phillips, Sato) *Kanungo*

[A3](#) FB_Nucl&QCD (Session 2: Rotureau, Elster, Michel, Mercenne, Griesshammer, Hlophe) *Hussein*

[A4](#) FB_Nucl&QCD (Session 3: Ikeda, Yamazaki, Berkowitz, Hadjiyiannakou, Gongyo) *van Kolck*

Coffee Break - [Espace réception](#) 16h00 – 16h30

Parallel sessions II 16h30 - 18h30

[A1](#) FB_Hadron (Session 1: Peña, Stadler, Frederico, Orlandini, Ydrefors, Kamada) *Bacca*

[A2](#) FB_Nucl&QCD (Session 4: Sorlin, Revel, Odsuren, Monteagudo, Horiuchi, Weiss) *Grigorenko*

[A3](#) FB_Nucl&QCD (Session 5: Mardor, Watanabe, Sekiguchi, Mohammadi-Dadkan, Stephan, B Klos) *Ciepał*

[A4](#) FB_Interdiscip (Session 1: Naidon, Schmickler, Stipanović, Platter, Roudnev, Rupak) *Gattobigio*

Abstract Book online at: <https://fb22-caen.sciencesconf.org/resource/page/id/2>

Session Chairs indicated in *underlined italics*

TUESDAY 10 July

PARALLEL SESSIONS (presentations 20+5 mins & 15+4 mins – see detailed listings) - [Ateliers 1 - 4](#)

Parallel sessions I 09h00 - 10h30

- [A1](#) FB_A&M (Session 2: Mery, Ancarani, Tomio, Klar) *Cassimi*
[A2](#) FB_A&M (Session 3: Browaeys, Liu, Melezhik, Malykh) *Nagashima*
[A3](#) FB_Nucl&QCD (Session 6: Shimoura, Yang, Dohet-Eraly, Reinert) *Deltuva*
[A4](#) FB_Interdiscip (Session 2: Kievsky, Schweiger, Kirscher, Semay) *Lekala*

Coffee Break - [Espace réception](#) 10h30 – 11h00

Parallel sessions II 11h00 - 12h30

- [A1](#) FB_A&M (Session 4: Zhu, da Silva Jr, Cheinet, Yarevsky) *Kolganova*
[A2](#) FB_Hadron (Session 2: HC Kim, Jung, Plessas, Bedolla) *Gao*
[A3](#) FB_Exotic (Session 1: Liénard, Braaten, Gnech, Fry) *Salme*
[A4](#) FB_Interdiscip (Session 3: Ji, Allton, Hernandez, Higa) *Pohl*

Lunch 12h30 – 14h00

PLENARY SESSIONS (presentations 25+5 mins) - [Ampithéâtre](#)

EFT description of nucleon and nuclei *Chair: D. Phillips* 14h00 - 15h30

- L. Girlanda *EFT descriptions of few-nucleon systems*
S. König *Nuclear physics at the unitary limit*
J. McGovern *Nucleon polarisabilities*

Coffee Break - [Espace réception](#) 15h30 – 16h00

Quark spectroscopy of hadrons *Chair: Q. Zhao* 16h00 - 18h00

- Changzheng Yuan *XYZ mesons at BESIII*
J. Vijande *Few-body insights of multi-quark exotic hadrons*
G. Eichmann *Hadron spectroscopy and structure in the Dyson-Schwinger approach*
R. Gothe *Nucleon resonances and their quark structure*

POSTER SESSION & RECEPTION - [Espace réception](#) 18h00 - 20h00

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WEDNESDAY 11 July

PLENARY SESSIONS (presentations 25+5 mins) - [Ampithéâtre](#)

From quarks to nuclei *Chair: Y. Kim* 09h00 - 10h30

- Z. Davoudi *Light nuclei from lattice QCD: spectrum, structure and reactions*
- S. Elhatisari *Lattice simulations with chiral EFT for light and medium-mass nuclei*
- G. Salme *Few-body systems in Minkowski space*

Coffee Break - [Espace réception](#) 10h30 – 11h00

Recent progress in Efimov physics *Chair: T. Frederico* 11h00 - 12h30

- R. Dörner *Structure and dynamics of He Efimov and Halo states*
- B. Bazak *Efimov physics beyond three particles*
- M. Yamashita *Efimov effect in D spatial dimensions in AAB systems*

SPECIAL SESSION - [Ampithéâtre](#) *Chair: N. Kalantar* 12h30 - 13h30

Presentation Faddeev Prize & Short talks by Laureates

Lunch & Free Afternoon 13h30 –

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Session Chairs indicated in *underlined italics*

THURSDAY 12 July

PLENARY SESSIONS (presentations 25+5 mins) - [Ampithéâtre](#)

Ultra-cold atomic systems

Chair: O. Dulieu

09h00-10h30

- I. Ferrier-Barbut *Dipolar quantum liquids, using two-body interactions to make a many-body bound state*
- L. Fallani *Experiments with multi-component ultracold fermions*
- J.H. Denschlag *State-to-state chemistry for three-body recombination in an ultracold rubidium gas*

Coffee Break - [Espace réception](#)

10h30 – 11h00

Recent progress in nuclear interaction

Chair: Ch. Forssen

11h00 -12h30

- Or Hen *New studies of short-range correlations and the EMC effect*
- A. Ekström *Strong interactions for precision nuclear physics*
- M. Piarulli *The basic model of nuclear theory: from atomic nuclei to infinite nuclear matter*

Lunch

12h30 – 14h00

PARALLEL SESSIONS (presentations 20+5 mins & 15+4 mins – see detailed listings) - [Ateliers 1 - 4](#)

Parallel sessions I

14h00 - 16h00

- [A1](#) FB_Hadron (Session 3: Lorcé, Trawiński, Doria, Zhao, De Mori, J Lu) *Peña*
- [A2](#) FB_Exotic (Session 2: Rappold, Schoenning, David, Skurzok, Yamaga, Shevchenko) *Haidenbauer*
- [A3](#) FB_Nucl&QCD (Session 7: Greene, Hiyama, Viviani, Shirokov, Ph Klos) *Timofeyuk*
- [A4](#) FB_Nucl&QCD (Session 8: Volya, Fortunato, Kanada-En'yo, Ando, Swartz, Fynbo) *Descouvemont*

Coffee Break - [Espace réception](#)

16h00 – 16h30

Parallel sessions II

16h30 - 18h30

- [A1](#) FB_Hadron (Session 4: Doering, Suh, Fernandez, Yamaguchi, Zhuang, Y Liu) *Plessas*
- [A2](#) FB_Nucl&QCD (Session 9: Kondo, Grigorenko, Corsi, Oryu, Casal, Gibelin) *Nazarewicz*
- [A3](#) FB_Nucl&QCD (Session 10: Hupin, Barnea, Harada, Howell, Y Kim, Mazur) *Shirokov*
- [A4](#) FB_Interdiscip (Session 4: Polyzou, Rubtsova, Leidemann, Mohapatra, Timoteo, Lekala) *Baye*

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FRIDAY 13 July

PARALLEL SESSIONS (presentations 20+5 mins & 15+4 mins – see detailed listings) - [Ateliers 1 - 4](#)

Parallel sessions I 09h00 - 10h30

- [A1](#) FB_A&M (Session 5: Safronova, Nagashima, Zimmermann, Kezerashvili) *Kievsky*
[A2](#) FB_Hadron (Session 5: Montaña, Giachino, Schmidt, Ishikawa) *Valcarce*
[A3](#) FB_Exotic (Session 3: Haidenbauer, Contessi, Hyodo, Revai) *McGovern*
[A4](#) FB_Nucl&QCD (Session 11: Maeda, Witala, Ciepał, Nakai) *Viviani*

Coffee Break - [Espace réception](#) 10h30 – 11h00

Parallel sessions II 11h00 - 12h30

- [A1](#) FB_Exotic (Session 4: Kuboś, Miliucci, Hong, Raha) *Hiyama*
[A2](#) FB_Hadron (Session 6: Defurne, Mezrag, de Paula, Pace) *Moutarde*
[A3](#) FB_Nucl&QCD (Session 12: Deltuva, Hussein, Timofeyuk, Guimaraes) *Elster*
[A4](#) FB_Nucl&QCD (Session 13: Mihovilovic, Bacca, Yamanaka, Marcucci) *Piasetzky*

Lunch 12h30 – 14h00

PLENARY SESSIONS (presentations 25 + 5 mins) - [Ampithéâtre](#)

Nucleus as a few-body system Chair: *H. Witala* 14h00 - 15h30

- K. Fosse *Effective description of ^{5-10}He and the search for a narrow $4n$ resonance*
R. Lazauskas *Recent developments in solving few-particle scattering problem by the solution of the Faddeev-Yakubovsky equations*
R. Kanungo *Unveiling new features in nuclear properties with rare isotopes*

Coffee Break - [Espace réception](#) 15h30 – 16h00

Few-nucleon aspects in nuclear astrophysics Chair: *V. Guimaraes* 16h00 - 17h00

- F. de Oliveira *Nuclei wading in the nucleons sea: Exploring light nuclei beyond proton drip line*
A. Formicola *Few-nucleon reactions in underground laboratory*

“From the past to the future...” Chair: *N.A. Orr* 17h00 - 17h30

- J.M. Richard *Looking back, looking forward*

Closing remarks

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