



Baryons 2022

7-11 November, Sevilla

Second Circular

The 2022 International Conference on the Structure of Baryons, Baryons 2022, will take place in the period of 7-11 November 2022, in Seville, the capital of Andalusia, Spain. Note, too, that it will be celebrated in a hybrid mode with the possibility of following it on-line. This conference series began in 1970 at Duke University. The Seville meeting follows the successful events in Glasgow (2013), Tallahassee (2016), and related-school in Seville (2021); and will canvass similar themes. It will highlight the physics of baryons and related subjects in astro-, nuclear- and particle-physics, developing our understanding of the spectrum, structure and reactions of baryons using all available tools. Particular emphasis will be placed on elucidating the role of confinement and emergent mass, key non-perturbative phenomena within the Standard Model. Recent developments at existing facilities and those anticipated from the next-generation will also be showcased.

Scientific Program

Main topics include:

- **Spectroscopy of hadrons**
Light/heavy flavor hadrons, Resonances, Exotics, Hadronic molecules, Spectroscopy and Lattice QCD.
- **Hadron-hadron interactions**
Meson-meson, meson-baryon and baryon-baryon interactions, Anti-proton interactions.
- **Electromagnetic and weak interactions**
Photo and electro productions of hadrons, P and CP-violating processes in nucleons and nuclei.
- **Hadrons at finite density and temperature**
The QCD vacuum, Chiral symmetry, Hadron properties, QGP, Heavy ion collisions.
- **Structure of hadrons**
Form Factors, Structure Functions, GPDs, TMDs, Fragmentation functions.
- **Theory for strong QCD**
Continuum Schwinger-function methods, lattice QCD, models and phenomenology.
- **New facilities and instrumentation**
EIC, EicC, FAIR, HE-HL LHC, super tau-charm factories, ILC, etc.

There will be three types of presentation:

- **Plenary talks**
Plenary sessions will focus on reviews of, and future prospects for, the above mentioned topics.
- **Leading talks**
There will be more specific talks which will lead each parallel session focused in the above mentioned topics.
- **Contributions**
Parallel sessions will be held, for which we strongly encourage as many contributions as possible. A poster session will also be arranged.

International Advisory Committee

- Constantia Alexandrou (Cyprus U.)
- Reinhard Beck (Mainz U.)
- Stanley J. Brodsky (SLAC)
- Lei Chang (Nankai U.)
- Jian-Ping Chen (Jefferson Lab.)
- Volker Crede (Florida State U.)
- Rolf Ent (Jefferson Lab.)
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- Anthony G. Williams (Adelaide U.)
- Bogdan Wojtsekhowski (Jefferson Lab.)

Local Organizing Committee

- Jorge Segovia (UPO, Spain) [Chair]
- Feliciano De Soto (UPO, Spain)

- José Rodríguez-Quintero (UHU, Spain)
- Juan Antonio Caballero (US, Spain)
- Craig D. Roberts (NJU-INP, China)
- Daria Sokhan (U. Glasgow, Scotland)
- Teresa Peña (IST ULisboa, Portugal)

List of Invited Plenary and Leading Speakers

- Sinya Aoki, Kyoto U., Japan.
- Daniele Binosi, ECT*, Italy.
- Mariaelena Boglione, Torino U., Italy.
- William K. Brooks, Santa Maria U., Valparaiso, Chile.
- Daniel Carman, Jefferson Lab., USA.
- Lei Chang, Nankai U., China.
- Ying Chen, IHEP, China.
- Volker Crede, Florida State U., USA.
- Michael Döring, George Washington U., USA.
- Jerry P. Draayer, Louisiana State U., USA.
- Dipangkar Dutta, Mississippi State U. USA.
- Robert G. Edwards, Jefferson Lab., USA.
- Gernot Eichmann, IST - Ullisbon, Portugal.
- Rolf Ent, Jefferson Lab, USA.
- Christian Fischer, Giessen U., Germany.
- Ralf Gothe, South Carolina U., USA.
- Feng-Kun Guo, Beijing-ITP, China.
- Stuart Henderson, Jefferson Lab., USA.
- Astrid Hiller Blin, Jefferson Lab., USA.
- Tanja Horn, Catholic U. America, USA.
- David G. Ireland, Glasgow U., UK.
- Su Hounq Lee, Yonsei University, South Korea.
- Huey-Wen Lin, Michigan State U., USA.
- Zhan-Wei Liu, Lanzhou U. - Inst Mod. Phys., China.
- Alessandro Lovato, ANL, USA.
- Cédric Mezrag, IRFU Saclay, France.
- Viktor Mokeev, Jefferson Lab, USA.
- Arantza Oyanguren, IFIC-UV, Spain.
- Joannis Papavassiliou, IFIC-UV, Spain.
- Assumpta Parreño, ICCUB, Spain.
- Eliezer Piasetzky, Tel Aviv U., Israel.
- Catarina Quintans. LIP, Portugal.
- Paul E. Reimer, ANL, USA.
- Craig D. Roberts, INP-NJU, China.
- Deborah Rönchen, HISK & Bonn U., Germany.
- Elena Santopinto, INFN-Genoa, Italy.
- Karin Schonning, Uppsala U., Sweden.
- Vahe Sokhoyan, Mainz U., Germany.

- Sergey N. Syritsyn, Stony Brook U., USA.
- Adam P. Szczepaniak, Indiana U., USA.
- Hirokazu Tamura, Tohoku U., Japan.
- Marc Vanderhaeghen, Mainz U., Germany.
- Rayu Venugopalan, BNL, USA.
- Rong Wang, Lanzhou U. - Inst Mod. Phys., China.
- Daniel P. Watts, York U., UK.
- Xingbo Zhao, Lanzhou U. - Inst Mod. Phys., China.

Call for Contributions

In order to contribute to the Baryons-2022 by giving a talk in one of the topical sessions, please submit the title and an abstract for your presentation through the Indico portal

<https://indico.cern.ch/event/853858/>

Important: The deadline for the submission of abstracts is August 31st, 2022.

Conference venue

The conference will be held at the facilities of either

Universidad Pablo de Olavide, de Sevilla

Ctra. de Utrera, km. 1 41013, Sevilla

<https://www.upo.es/portal/impe/web/portada/index.html>

or

Universidad de Sevilla

Avenida Reina Mercedes, s/n. CP. 41012. Localidad. Sevilla.

<https://www.us.es/>

Registration and Registration Fee

The registration is now open at the web page (please, do not forget to use the Indico web page for registering your name in the participant list):

<https://baryons2022.com/>

The regular conference fee is 300 Euros for in-person participation and 50 Euros for following it on-line. A late registration fee of 350 Euros will be charged after September 30th, 2022. Note, too, that there is a student discount, i.e. a reduced fee of 150 Euros (*); and the possibility of adding an accompanying person by paying expenses of conference's social events. Finally, please note that for on-site payment of the conference fee we can only accept cash.

(*) PhD students, who would like to pay the reduced fee, should contact either Prof. Dr. Feliciano de Soto (fcsotbor@upo.es) or Prof. Dr. Jorge Segovia (jsegovia@upo.es) before making the registration fee payment.

Visa information

Spain is party to the Schengen Agreement; still, a visa is necessary for some non-EU nationals. If you are from such a country and require a letter of invitation, please contact the local organizers as soon as possible

Weather

The climate of Seville, the capital of Andalusia, Spain, can be defined as Mediterranean. In November, despite being close to the winter session, Seville still receives at least 6-8 hours of sunshine per day. The temperatures generally range between 8 °C for overnight and 17 °C for during the day, and thus it is very mild with the chance of showers here or there.

Conference proceedings

Instead of publishing traditional conference proceedings the organizing committee has agreed with the journal "Few Body Systems" (<https://link.springer.com/>) to publish a special issue "The 2020 International Conference on the Structure of Baryons - Selected and Refereed papers from Baryons 2020". It will consist of invited review papers and a selection of regular articles. Every submitted article will be subjected to the usual journal procedure of assessing the required relevance and novelty through peer-review. The editors for this special issue are:

- FBS insider editor:

Professor Craig Roberts
School of Physics and Institute for Nonperturbative Physics,
Nanjing University, Nanjing, Jiangsu 210093, China

- Guest editors:

Prof. Dr. José Rodríguez-Quintero
Department of Integrated Sciences and Center for Advanced Studies in Physics,
Mathematics and Computation
University of Huelva, E-21071 Huelva, Spain.

Prof. Dr. Jorge Segovia
Department of Physical, Chemical and Natural Systems
University Pablo de Olavide, in Seville, E-41013 Seville, Spain.

Dr. Daria Sokhan
School of Physics and Astronomy,
University of Glasgow, Glasgow G12 8QQ, Scotland, UK

Important dates

- Deadline for the abstract submission: 31 August 2022.
- Early registration deadline: 30 September 2022.
- Late registration deadline: 31 October 2022.
- Start of the conference: 07 November 2022.
- End of the conference: 11 November 2022.

Contact information

Conference websites:

<https://indico.cern.ch/event/853858/>

<https://baryons2022.com/>

Conference locals:

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We are looking forward to welcoming you in Seville!