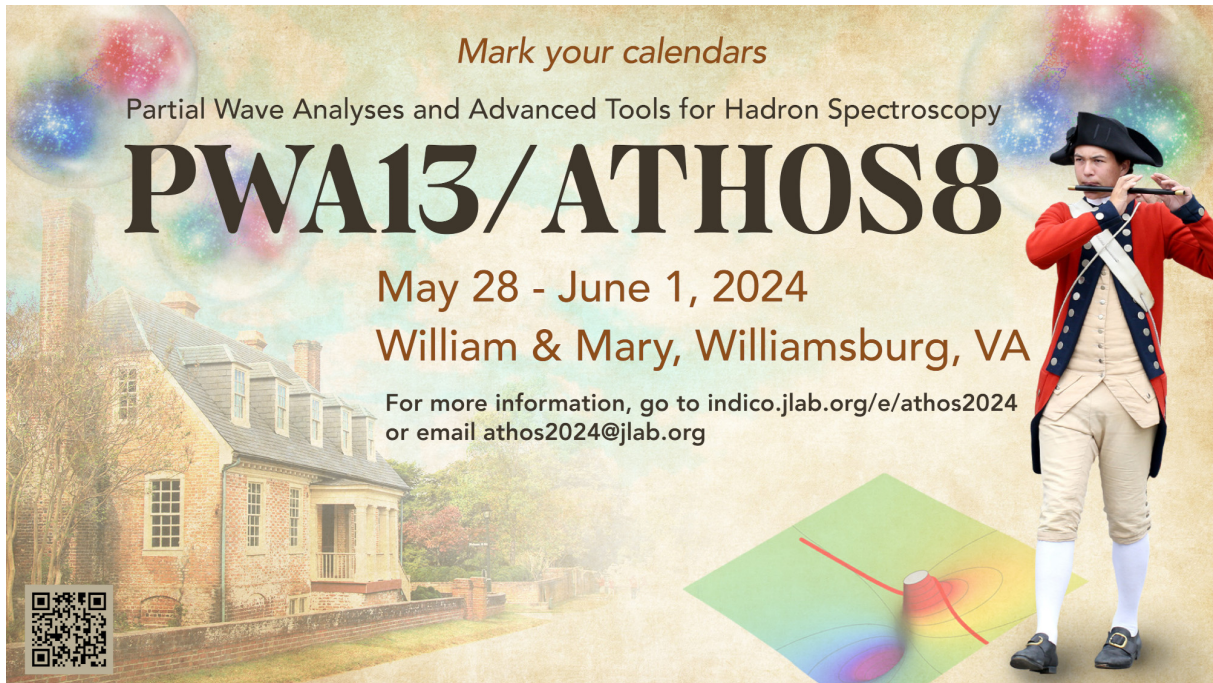


**International Workshop
on Partial-Wave Analyses and Advanced Tools
for Hadron Spectroscopy**

PWA13/ATHOS8

William & Mary
Williamsburg, Virginia, USA
Tuesday, May 28th – Saturday, June 1st, 2024
<https://indico.jlab.org/e/athos2024>

Second Circular



Mark your calendars


Partial Wave Analyses and Advanced Tools for Hadron Spectroscopy

PWA13/ATHOS8

May 28 - June 1, 2024
William & Mary, Williamsburg, VA

For more information, go to indico.jlab.org/e/athos2024
or email athos2024@jlab.org

The banner features a historical figure in a red coat and black hat playing a flute on the right. On the left is a brick house with a porch. The background is a mix of colorful, abstract patterns and a green field with a red and blue wave-like graphic.



The *International Workshop on Partial-Wave Analyses and Advanced Tools for Hadron Spectroscopy* (PWA13/ATHOS8) is a joint meeting combining the *13th International Workshop on Pion-Nucleon Partial Wave Analysis and the Interpretation of Baryon Resonances* (PWA) and the *8th Workshop on Partial-Wave Analysis Tools for Hadron Spectroscopy* (ATHOS). It will take place at William & Mary in Williamsburg, Virginia, in proximity to the Thomas Jefferson National Accelerator Facility (Jefferson Lab). Previous editions were held at University of Bristol (2021), CBPF in Rio de Janeiro (2019), IHEP in Beijing (2018), George Washington University (2017), and University of Bonn (2015).

Scientific Program

The purpose of this workshop series is to bring together experimental and theoretical groups working in hadron spectroscopy. The emphasis of the scientific program is on methods and tools for data analysis, addressing challenges that are common in the study of excited baryons, mesons, and the recently discovered exotic hadrons in the light-quark as well as in the heavy-quark sector. For the planned workshop, a special focus will be put on the application of innovative statistical methods like artificial intelligence and machine learning (AI/ML) to the field of amplitude analysis. Main topics include

- Spectroscopy of mesons, baryons, and exotic hadrons with heavy quarks
- Spectroscopy of light mesons and baryons
- Advanced tools and methods for partial-wave and amplitude analyses
- Models for partial-wave and amplitude analyses
- Amplitude analysis as input for other fields

The program will consist of plenary talks. Part of the talks will be invited but we also encourage the community to submit abstracts (see below).

Call for Contributions

To contribute to one of the workshop's topical sessions, please submit a title and an abstract through the workshop website at <https://indico.jlab.org/event/739/abstracts/>.

The deadline for abstract submission is March 17th, 2024.

With emphasis on the workshop character and to stimulate discussions, we encourage speakers to present work in progress and to focus in particular on challenges faced in amplitude analyses and/or novel techniques/approaches/theory models that were or can be applied to data. Conveners will select specific contributions to be invited presentations. The program will leave ample time for discussions and we encourage an active participation in particular of early-career scientists (students and postdoctoral researchers) in these discussions.

International Advisory Committee

Marco Battaglieri (INFN, Italy)
Raúl Briceño (UC Berkeley and LBNL)
Volker Burkert (Jefferson Lab)
Michael Döring (George Washington University)
David Ireland (University of Glasgow, UK)
Beijiang Liu (IHEP, China)
Curtis Meyer (Carnegie Mellon University)
Eulogio Oset (Valencia University, Spain)
Michael Ostrick (Mainz University, Germany)
Stephan Paul (Technical University of Munich, Germany)
Anton Poluektov (IN2P3, France)
Elisabetta Prencipe (University of Giessen, Germany)
Jonas Rademacker (University of Bristol, UK)
Alberto Corrêa dos Reis (CBPF, Brazil)
Toru Sato (Osaka, Japan)
Jin Shan (IHEP, China)
Alfred Švarc (RBI, Croatia)
Adam Szczepaniak (Indiana University and Jefferson Lab)
Ulrike Thoma (Bonn University, Germany)
Qiang Zhao (IHEP, China)
Bing-Song Zou (IHEP, China)

Local Organizing Committee

Alexander Austregesilo (Jefferson Lab)
Justin Stevens (William & Mary)
Boris Grube (Jefferson Lab)

Workshop Venue

The workshop will take place in the Brinkley Commons Room in the Alan B. Miller Hall at William & Mary in Williamsburg, Virginia. William & Mary was founded in 1693 and is the second-oldest institution of higher education in the United States. The college educated many historic figures, among them the American presidents Thomas Jefferson, James Monroe, and John Tyler. Today, William & Mary is a public research university with about 6500 undergraduate and close to 3000 graduate students. Its 4.9 km² campus is considered one of the most beautiful college campuses in the United States. It borders on Colonial Williamsburg, which is the largest outdoor living museum in the United States spanning over 1.2 km² with more than 500 restored buildings and attracting about one million visitors per year. The city of Williamsburg is a small city with a population of about 15 500. It is located on the Virginia Peninsula in the northern part of the Hampton Roads metropolitan area.



Courtesy of William & Mary

Transportation

Directions to the William & Mary campus can be found at <https://www.wm.edu/about/visiting/directions/>.

By Plane

Williamsburg has three nearby airports, which can be reached by taxi, airport shuttle, or ridesharing companies:

- Newport News/Williamsburg International Airport (PHF): 30 km, ca. 40 min
- Norfolk International Airport (ORF): 70 km, ca. 1 h
Note, that the tunnel between Norfolk and Williamsburg can cause traffic delays, especially during rush hour.
- Richmond International Airport (RIC): 74 km, ca. 1 h

By Train or Bus

The Williamsburg Transportation Center is served by Amtrak trains connecting to Newport News, Richmond, and Washington DC. Intercity bus service is provided by Greyhound Lines (Carolina Trailways), Hampton Roads Transit (HRT), and the Williamsburg Area Transit Authority.

Onsite Parking

We provide visitor passes for onsite parking. If you plan to come by car, please make sure to reserve your visitor pass using the registration page (see below). More information and a map of parking locations can be found at <https://www.wm.edu/offices/auxiliary/parkingandtransportation/visitors/parking/>.

Registration and Workshop Fee

To participate in the workshop please register via the

registration page at <https://wm.irisregistration.com/Site/PWA13>.

The registration will open February 9th, 2024. The **workshop fee is USD 450** payable via MasterCard, Visa, American Express, Discover, or check. The fee covers

- the coffee breaks,
- a catered lunch each day,
- an opening reception,
- and a workshop dinner.

A **late registration fee of USD 500**, will be charged **starting May 1st, 2024**. There is no reduced fee for partial attendance.

Cancellations must be received in writing to wmconf@wm.edu. No refunds will be offered after May 1st, 2024 and full payment will be due. Cancellations received prior to May 1st 2024 are subject to a USD 100 administrative fee. For questions regarding your registration or payment, contact the William & Mary Conference & Event Services via email to wmconf@wm.edu.

Lodging

Dorm Rooms

We have reserved 30 rooms in the William & Mary residence halls from May 28th to June 1st, 2024 (4 nights). The dorm rooms can be used at no additional cost and include breakfast in the dining hall from May 29th to June 1st. If you would like to be considered for one of these rooms, **please register latest by March 17th, 2024 (no payment necessary yet at this point)** and select the respective option on the registration page at <https://wm.irisregistration.com/Site/PWA13>.

In case the dorm rooms are oversubscribed, the local organizing committee will give preference to early-career scientists (students and postdoctoral researchers) and underrepresented groups. The **selection will be made on March 18th, 2024** and participants will receive a confirmation of their reservation via email together with further info about check-in on May 28th and checkout on June 1st. If requested in advance via email to athos2024@jlab.org, early check-in on May 27th can be arranged.

Hotels and Inns

The Williamsburg area offers a wide range of accommodations. A list of hotels and inns that offer special rates for visitors to William & Mary can be found at <https://campustravel.com/university/william-mary/>. Please inquire about current discounts when making your reservation. Additional accommodations in Williamsburg and the surrounding area can be found at <https://www.visitwilliamsburg.com/hotels-lodging>.

Visa Information

In order to enter the US and attend the workshop a business visa (either B-1 or WB, if from a visa-waiver country) is required. This type of activity is not allowed on a tourist visa (B-2 or WT). In particular, if you obtain any type of funding or reimbursement from the workshop, it is imperative that you enter the US with a business visa. Consult the Visa Wizard on the US Embassy website to verify whether you need a visa or your country participates in the Visa Waiver Program. Note that even if you are a citizen of a visa-waiver country, you must have a valid ESTA and the correct type of passport.

Obtaining a Visa

There are many different requirements to obtain a visa to enter the United States. Some embassies may request the workshop attendee to present a letter from the workshop to verify their intentions to attend the specific workshop. It may also be necessary to verify that the requester has paid the registration fee in full. Visa applications are currently subject to a greater degree of scrutiny than in the past. Many applicants may be required to appear in person for an interview as part of the visa process. Applicants affected by these procedures are informed of the need for additional screening (Administrative Processing) at the time they submit their visa application and will be advised to expect delays. Therefore, we urge attendees to apply for their visa as early as possible and no later than 3 to 5 months prior to the workshop. Below are suggestions to help you secure the correct visa.

- Apply for a Business visa.
- Apply at the appropriate location. You can check on-line for the wait times for appointments.
- Be accurate and specific in completing your application. Avoid mistakes. If needed, attach an additional explanation letter.
- Attach evidence of your previous visits to the United States and of your intended return trip to your home country.
- Acquire a police clearance, if possible.
- Bring all documentation proving your home country connections. Suggestions include: past visas, bank accounts, family, professional position, home ownership, and marriage license.
- If you are presenting a paper or speaking at the meeting or are receiving travel reimbursement, bring copies of correspondence confirming that.
- Bring your letter of invitation from the workshop.
- Be prepared to allow inkless fingerprinting and digital photographs upon entry to the US.

Note that a visa only allows you to travel to the United States. You will still have to be admitted at your point of entry.

Invitation Letters

Letters of invitation are only provided to attendees who are planning to participate and attend the workshop. To request a letter of invitation please register via the workshop website at <https://indico.jlab.org/e/athos2024> and fill out the form linked under Travel Information. You will need to provide the following information in your request:

- Your email address
- Your full name (family name and given name)
- Your title
- Your arrival and departure dates

Meals

We will organize on-site lunches, which are included in the registration fee. For breakfast and dinner, the surrounding area of the William & Mary campus offers a wide choice of restaurants.

Social Program

The social program will include a welcome reception on Tuesday, May 28th, 2024, a free afternoon to explore Colonial Williamsburg and a workshop dinner on Thursday, May 30th, 2024.

Weather

Williamsburg is in the humid subtropical climate zone. End of May, the weather is usually sunny with temperatures reaching up to 30 °C during the day. Nights are around 20 °C. (Do not forget your swimsuit.)

Important Dates

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|---------------------|--|
| November 1st, 2023 | First circular with announcement and general information Start date for abstract submission |
| February 12th, 2024 | Second circular with information about registration and lodging Start date for registration |
| March 17th, 2024 | Deadline for abstract submission |
| March 17th, 2024 | Deadline for dorm room application |
| March 18th, 2024 | Confirmation of dorm room reservations |
| April 30th, 2024 | Deadline for early registration fee |
| May 28th, 2024 | Start of workshop |
| June 1st, 2024 | End of workshop |

Contact Information

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| Workshop website | https://indico.jlab.org/e/athos2024 |
| Workshop email | athos2024@jlab.org |
| Workshop venue | Alan B. Miller Hall William & Mary 101 Ukrop Way Williamsburg, VA 23185 USA https://www.wm.edu/about/visiting/campusmap/location/miller.php |

We are looking forward
to welcoming you in Williamsburg!