



EIC\_NET Meeting – December, 5 2022

# Motivation

- The EIC will play an essential role in our understanding of QCD and the structure of nucleons and nuclei. It is very important to introduce and train a new generation of physicists to its physics programme.
- Early 2022 the idea developed to organize an EIC Summer school in Italy featuring lectures and tutorials on theoretical and experimental topics related to the physics of the EIC.
- An EIC summer school exists since 2019 in USA and it is organized by the Center for Frontiers in Nuclear Science (CFNS - Stony Brook) but given the large European commitment in the EIC project we believe it is useful to have a companion summer school also in Europe.
- The school is intended for advanced graduate students and postdocs in nuclear and particle physics. Although in the first edition is organized by the Italian members of the EIC Users Group our aim is to promote it into an international European school.

# Organizing Committee

Mail list: [eic\\_net-school@lists.infn.it](mailto:eic_net-school@lists.infn.it)

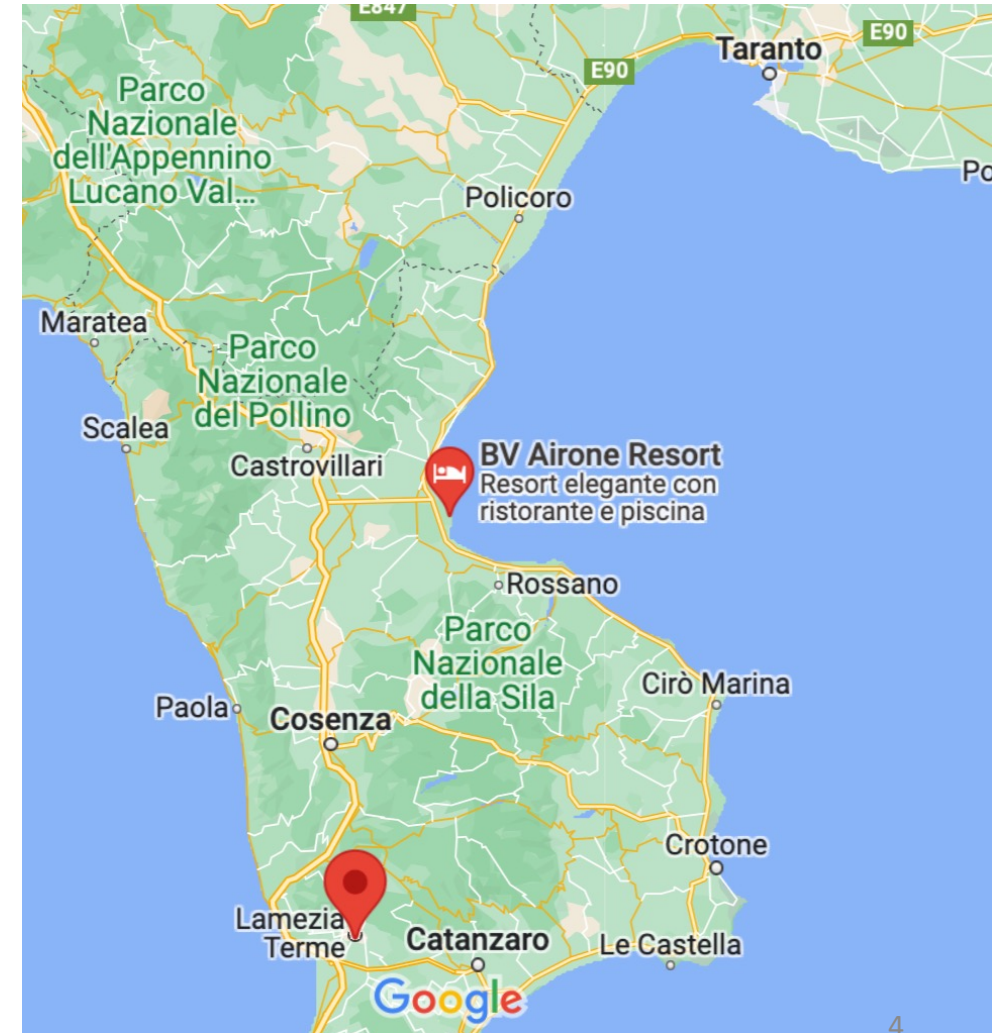
Meeting every other week and progressing well

- Pietro Antonioli (INFN-Bologna) (coordinator)
- Francesca Bellini (Università di Bologna and INFN-Bologna)
- Marcella Capua (Università della Calabria and INFN-Cosenza) (co-chair)
- Daniele De Gruttola (Università di Salerno and INFN-Salerno)
- Salvatore Fazio (Università della Calabria and INFN-Cosenza)
- Annalisa Mastroserio (Università di Foggia and INFN-Bari)
- Marco Radici (INFN - Pavia)
- Enrico Tassi (Università della Calabria and INFN-Cosenza) (co-chair)
- Cristina Tuvé (Università di Catania and INFN) (vice-chair)

A list of potential members of the **International Advisory Committee** has been prepared and the colleagues will be soon contacted to check their availability.

# School venue and dates

- The **EIC School** will take place June, 18-22 at the **BV Airone Resort** in Corigliano Calabro (Cosenza)
- The school will end with the beginning of the **Giornate Nazionali EIC 2023** that will take place June, 22-23 in the same venue.
- Closest airport: "Sant'Eufemia" Airport of Lamezia Terme (140 km) – Bus service will be provided
- Closest railway station: Sibari (10 km)





# Resort BV Airone Corigliano Calabro

- 4 star Hotel successfully used for the “Diffraction and low-x Workshop 2022”





# Resort BV Airone Corigliano Calabro

- The resort overlooks a marvellous stretch of the Alto Ionio cosentino coastline
- A short distance from the resort are some of the area's most important attractions, such as the Museum of the Codex of Rossano (the ancient UNESCO heritage evangelarium), the Byzantine abbey of Santa Maria del Patire and the Archaeological Park of Sibari



# Lectures Topics (preliminary)

We are targeting a total of 27 hrs lectures:

- Deep Inelastic Scattering (4 hrs)
- Physics of the EIC (4 hrs)
- TMDs (with hands on) (4 hrs)
- Hadronization in CDM (with nuclei and nPDF) (2hrs)
- Hadron spectroscopy (2hrs)
- Monte Carlo Event Generators (2hrs)
- Hermes, RHIC, Compass & JLAB (Overview) (3 hrs)
- EPIC experiment and detectors (1 hr)
- Hands-on (4 hrs)
- Italian contribution to EIC/EPIC (1hrs)

# Timetable (preliminary)

June,18 (Sunday)	June,19 (Monday)	June,20 (Tuesday)	June,21 (Wednesday)	June,22 (Thursday)	June,23 (Friday)
	Lectures (4h)	Lectures (4h)	Lectures (4h)	Lectures (4h)	EIC_NET GN
Arrival	lunch	lunch	lunch	lunch	lunch
Welcome Lecture (2h)	Lectures (3h)	Lectures (3h)	Lectures (3h)	EIC_NET GN	EIC_NET GN
Dinner	Dinner	Dinner	Dinner	Dinner	Social Dinner



# Codex Purpureus Rossanensis (Museo diocesano - Rossano)



[Video](#)

[Wiki](#)



# Ducal castle of Corigliano



[Video](#)

[Wiki](#)



# Santa Maria del Patire Abbey



[Video](#)

[Wiki](#)

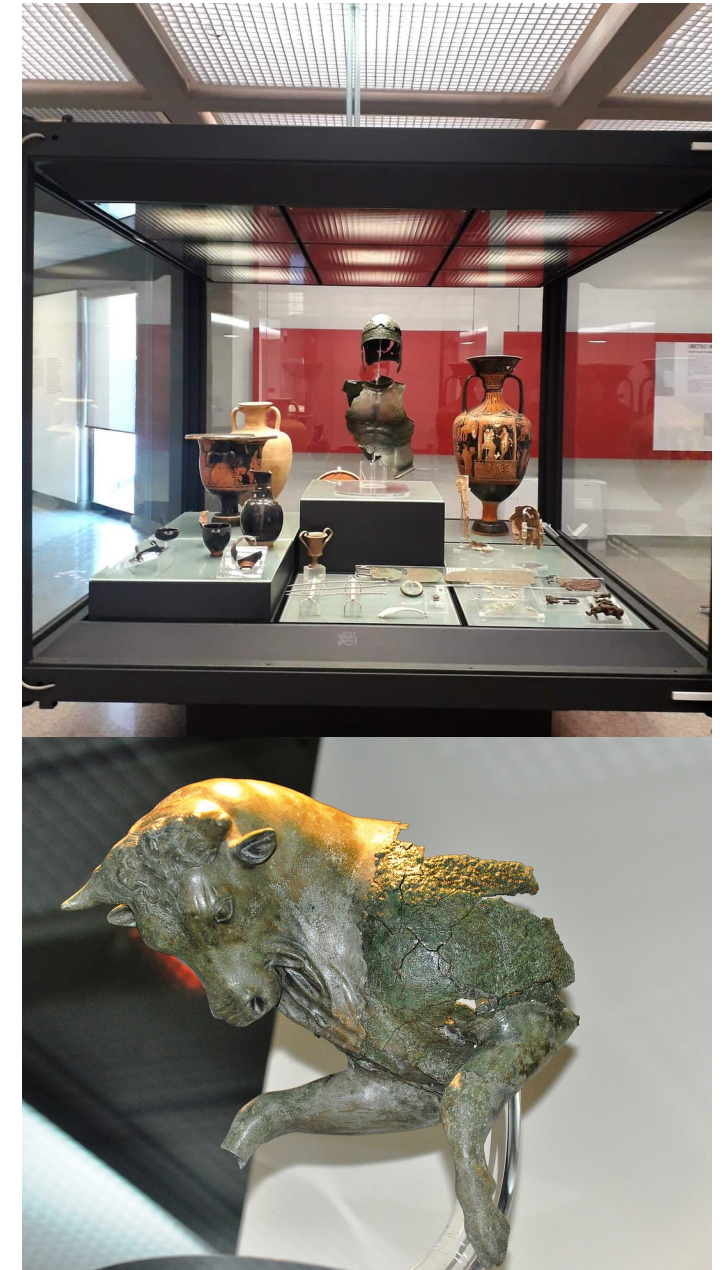


# Archaeological Park of Sibari Sibaritide Museum



[Video](#)

[Site](#)



# Final Remarks

- Organization of the EIC School 2023 well underway
- Right time to send your comments/suggestions
- Web site should be ready by the end of the year

`eic_net-school@lists.infn.it`