

# INFN ePIC Italy: visual (and not only) report



Istituto Nazionale di Fisica Nucleare

P. Antonioli – INFN Bologna

on behalf of ePIC Italy

# some INFN bureaucracy background for you



- networking initiative vs approved experiment ("sigla")
- INFN EIC community started to coalesce in 2016-2017
- 2018 request to become "a networking initiative" → super tx to Silvia for her seminal work!
- since 2019 → "EIC\_NET"
- June 2024
  - ✓ request to become "ePIC" to INFN Nuclear Physics Committee submitted last 7/6
  - ✓ the package includes: showing the community is big enough, describe intended IKC and financial effort
  - ✓ **INFN NPC granted experiment status to ePIC on 18/6**
  - ✓ this implies multi-year INFN commitment to support ePIC Italy to deliver IKC → ICRADA to follow



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Rev.  
1.0

Validità  
Final

Data 7/06/2024

Letter of Intent  
Richiesta di passaggio a sigla di esperimento ePIC  
da parte della sigla di networking EIC\_NET

# A long path to...

Giornate Nazionali EIC\_ NET == National meeting (1 per year)



Giornata nazionale  
EIC\_ NET 2020  
LNF

3-4 Dec 2020  
Online by Laboratorio  
Euronel/Dome timezone



Giornata nazionale EIC\_ NET 2022

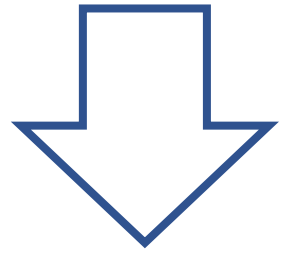


Giornate nazionali EIC\_ NET 2023  
Corigliano Rossano





Giornate Nazionali EIC\_NET 2024 - Bologna



Primo meeting nazionale ePIC Italia - Bologna, 27-28 giugno 2024

# A word from our spokesperson



<https://www.ornl.gov/staff-profile/john-g-lajoie>





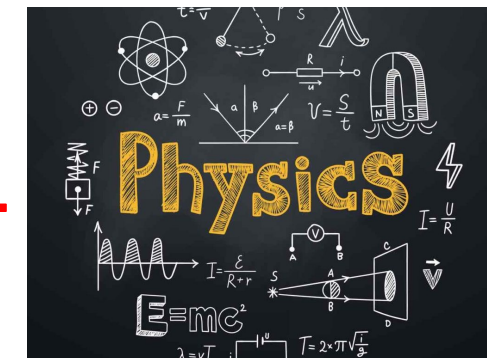
Thanks John!  
It was nice, especially for juniors, to "see" the international face of ePIC

# Our agenda: setting the scene and the physics



<https://agenda.infn.it/event/39909/>

14:00	<b>Welcome introduction from INFN Bologna</b> <i>Sala Manfredi, Accademia delle Scienze</i>	<i>Eugenio Scapparone et al.</i> 14:00 - 14:10
	<b>Introduction to the meeting</b> <i>Sala Manfredi, Accademia delle Scienze</i>	<i>John Lajoie et al.</i> 14:10 - 14:20
	<b>ePIC Italia and status of the EIC project (25' + 5')</b> <i>Sala Manfredi, Accademia delle Scienze</i>	<i>Pietro Antonioli</i> 14:20 - 14:50
15:00	<b>The roadmap towards ePIC TDR (general and detector) (20' + 5')</b> <i>Sala Manfredi, Accademia delle Scienze</i>	<i>Silvia Dalla Torre</i> 14:50 - 15:15
	<b>The roadmap towards ePIC TDR (physics performance) (20' + 5')</b> <i>Sala Manfredi, Accademia delle Scienze</i>	<i>Salvatore Fazio</i> 15:15 - 15:40
	<b>Hadron reconstruction and identification for SIDIS measurements with ePIC (15' + 5')</b> <i>Sala Manfredi, Accademia delle Scienze</i>	<i>Lorenzo Polizzi</i> 15:40 - 16:00
16:00	<b>Physics perspectives with the ePIC tracker performances (15' + 5')</b> <i>Sala Manfredi, Accademia delle Scienze</i>	<i>Shyam Kumar</i>  16:00 - 16:20
18:00	<b>Precision studies of QCD in the low energy domain of the EIC: a personal view (30' + 10')</b> <i>Sala Manfredi, Accademia delle Scienze</i>	<i>Marco Radici</i>  18:00 - 18:40



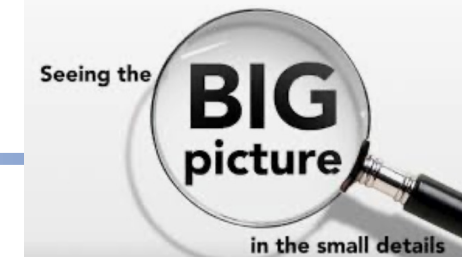
bring the theory on board ;-)

undergrad student  
now facing PhD admission

Introduction to the meeting



# Our agenda: trackers



## Thursday

### SVT

17:00

**The INFN in-kind contribution to the SVT Inner Barrel**

*Domenico Elia*

*Sala Manfredi, Accademia delle Scienze*

17:00 - 17:20

**SVT Inner barrel: mechanics**

*Rosario Turrisi*

*Sala Manfredi, Accademia delle Scienze*

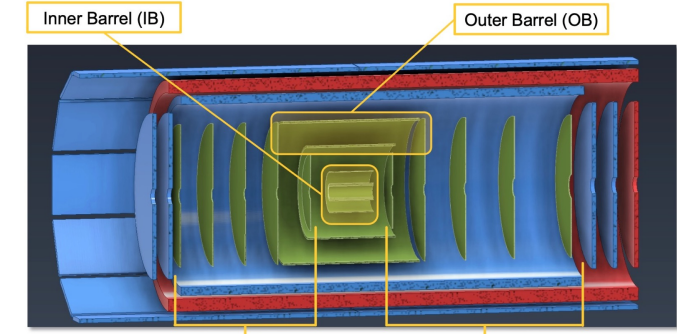
17:20 - 17:40

**Bending and assembly activities for SVT IB**

*M Teresa Camerlingo*

*Sala Manfredi, Accademia delle Scienze*

17:40 - 18:00



Electron and Hadron Endcap Disks (EE, HE)

## Friday

### MPGD-ECT (GEM- $\mu$ RWELL)

12:00

**The INFN IKC contribution to the GEM- $\mu$ RWELL tracker (ECT)**

*Annalisa D'Angelo*

*Sala Manfredi, Accademia delle Scienze*

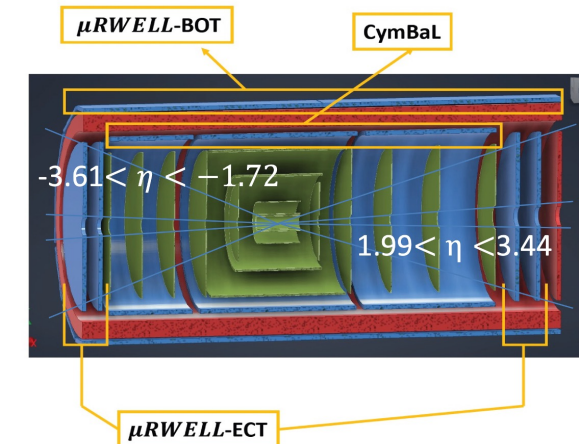
11:40 - 12:10

**The electronics of the GEM- $\mu$ RWELL tracker**

*Roberto Ammendola*

*Sala Manfredi, Accademia delle Scienze*

12:10 - 12:30



# Our agenda: dRICH

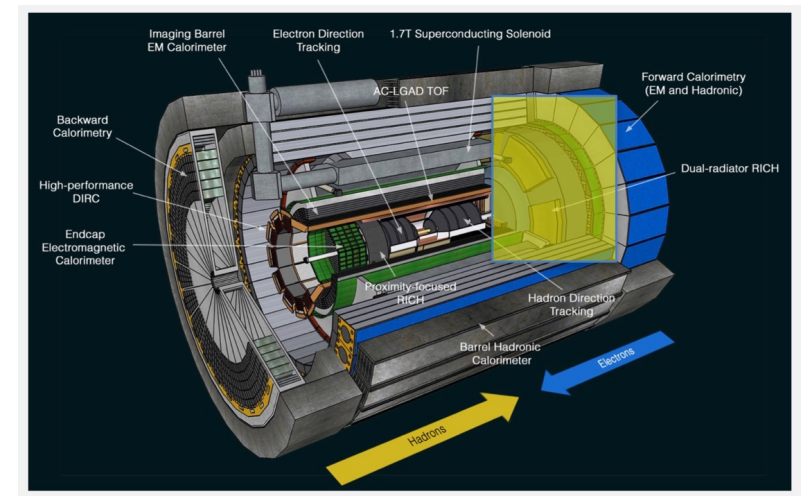
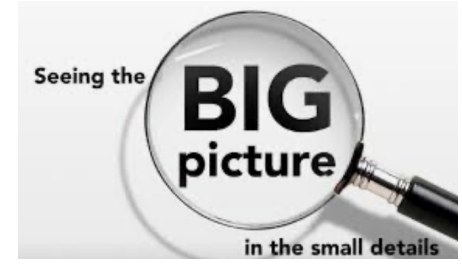


Friday

## dRICH

09:00

<b>The INFN In-Kind Contribution to the dRICH detector</b>	<i>Marco Contalbrigo</i>
<i>Sala Manfredi, Accademia delle Scienze</i>	08:30 - 09:00
<b>dRICH simulation studies</b>	<i>Chandradoy Chatterjee</i>
<i>Sala Manfredi, Accademia delle Scienze</i>	09:00 - 09:20
<b>The dRICH photosensors: SiPM studies</b>	<i>Luigi Pio Rignanese</i>
<i>Sala Manfredi, Accademia delle Scienze</i>	09:20 - 09:40
<b>An interaction tagger for the dRICH</b>	<i>Simone Vallarino</i>
<i>Sala Manfredi, Accademia delle Scienze</i>	09:40 - 10:00
<b>RICH pattern recognition with FPGA: from NA62 to dRICH</b>	<i>Alessandro Lonardo</i>
<i>Sala Manfredi, Accademia delle Scienze</i>	10:00 - 10:20
<b>The dRICH monitoring gas system</b>	<i>Fulvio Tessorotto</i>
<i>Sala Manfredi, Accademia delle Scienze</i>	11:00 - 11:20
<b>dRICH test beam: results</b>	<i>Nicola Rubini</i>
<i>Sala Manfredi, Accademia delle Scienze</i>	11:20 - 11:40





## growing and expanding our community

**Working in US: the INFN-DOE summer students programme and EU-funded mobility opportunities** *Simone Donati*

*Sala Manfredi, Accademia delle Scienze*

12:30 - 13:00

INFN – DOE summer student programme coordinator @Fermilab

**Outreach activities for the EIC**

*Sala Manfredi, Accademia delle Scienze*

*Marta Ruspa*

14:00 - 14:20

we established an ePIC Italy outreach working group



## our community

**Annual meeting EIC\_NET Italy**

*Sala Manfredi, Accademia delle Scienze*

14:20 - 15:45

(the boring but important moment when you discuss next year budget requests ...)







**Domenico Elia is new INFN PI-elect** (effective since November 1<sup>st</sup> 2024) for a 3-year term

Congrats to Domenico and good sign our community is renewing leadership every 3 years. We are already working together to ensure an orderly handover.



Bologna : tagliatelle al ragù



Rome: spaghetti alla carbonara

## January 2025 Collaboration Meeting

• After very careful consideration by the CC Office, Executive Board, and the Coordinators, we have decided to accept the proposal from University of Rome Tor Vergata & INFN to host the January 2025 ePIC Collaboration Meeting.

- University of Rome Tor Vergata & INFN
  - Via Frascati (Roman Hills)
    - Trains from Fiumicino Airport and Roma Termini
- Villa Mondragone
  - Rooms available at 3-4 star hotels in Frascati
  - Conference fee covers coffee breaks, lunches, shuttle buses:
    - Remote participants and students fee waived (up to 20%)
    - Minimum 100 in-person attendees
    - Social dinner (additional cost)
  - Plenary Room (160 people)
  - 3 parallel session rooms
  - AV support



See you at **Bethlehem** in 10 days,  
welcome to **Frascati** in January 2025!