INFN

dRICH News

EIC targeted R&D program has been initiated

eRD102 dRICH

This funding is in support of

- (i) an assessment of the basic prototype performance based on the 2021 test beams and
- (ii) the realization of a suitable photon detection plane for the dRICH prototype as cited in your proposal.

eRD110 Photosensors

This funding is for the SiPM R&D efforts at INFN.

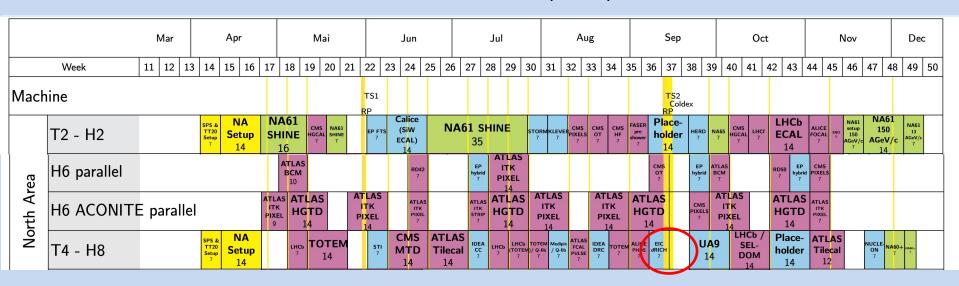
We ask you kindly provide a one-page Statement-of-Work (SOW) that is needed to establish the contract. Note that the contracts with eRD102 will be handled by the JLab procurement office.

Please note that this effort and its milestones will be entered and progress tracked in the EIC project portfolio management system (P6).

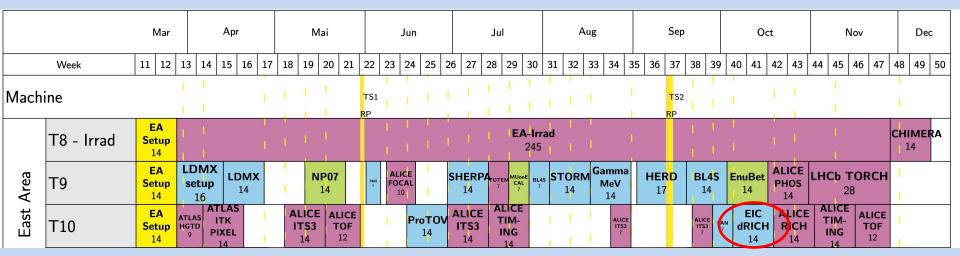


dRICH Test-beams

New campaign to approach the design performance 1 week at SPS with 20-60 GeV/c hadron beams. + 120 GeV/c pencil proton beam

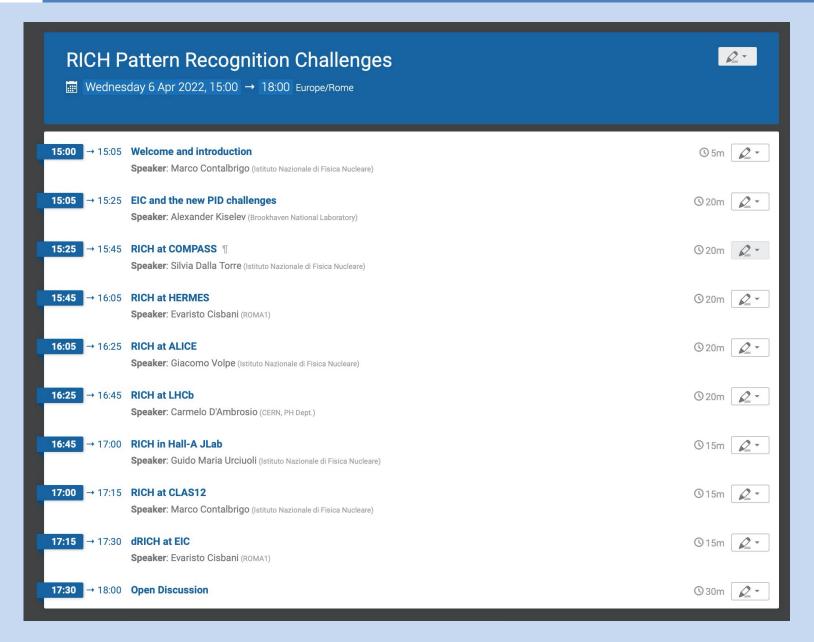


2++ weeks at PS with 0.5-12 GeV/c hadron beams + 0.5-5 GeV/c electron beams





RICH Pattern Recongnition



Agenda

Many contributions to (d)RICH analysis:

Evaristo Cisbani, Alessio del Dotto, Cristiano Fanelli

Marco Contalbrigo, Luca Barion, Simone Vallarino

proof-of-principle studies

prototype

Alexander Kiselev, Christopher Dilks, Chandradoy Chatterjee,

Implementation

Still missing a complete chain from a detector model till the reconstructed PID information

Goals:

- initiate a coherent effort towards an effective and practical framework that could timely serve the EIC PID performance optimization.
- prepare for future refinements and alternatives



RICH Pattern Recongnition

Initiatives:

Implementation of the dRICH simulation and software:

C. Chatterjee, A. Kiselev, C. Dilks May 4 (12:00 – 14:00 EST)

Cherenkov PID at EIC

R. Preghenella, G. Kalicy, T. Hemmick, X. He eic-projdet-CPID-l@lists.bnl.gov

LAPPD beam-test

A. Kiselev, P. Antonioli, M. Osipenko, S. Dalla Torre

First Detector

S. Dalla Torre, O. Hen, T. Horn, J. Lajoie, B. Surrow eic-ip6-public-l@lists.bnl.gov

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