COMMUNITY AND SITES



c. 2100 staff
 Number has been growing with recent new appointments

- over 3800 affiliated academic staff

INFN operates in close collaboration with 26 Italian Universities as part of a wide cooperation scheme.

Every year INFN covers 20 percent of all grants available at Italian Universities for Ph.D. research projects in physics

(~150 grants/year)





Eugenio Nappi

BUDGET & GOVERNANCE





Istituto Nazionale di Fisica Nucleare





INFN presence since the beginning (1991) Increasing interest in 12 GeV era Exp Users: ~40 FTEs, including ~15 students (PhD and post-doc)

Theo Support: ~ 30 scientists, including ~ 10 students

Spokespersonship: > 20% of approved 12 GeV experiments

Responsibility roles:Hardware, Analysis, CoordinatingP. Rossi:Deputy Associate DirectorM. Battaglieri:Hall-B Leader

R. De Vita: Hall-B Software Resp. and CCC member
M. Contalbrigo: DPWH Chair and CCC member
M. De Napoli: HPS Executive Committee member
A. Celentano: Chair of HPS Publications Committee

MoU: Renovated in September 2017

PAC members: INFN members since 1991 now: A. Bacchetta INFN-PV





Hall-A SBS Tracker



Large area GEM chambers under cosmic and integration tests





Small pitch silicon detector under final assembling







Hall-A SBS HCAL-J



288/288 modules ready for installation in Hall-A





Cosmic test with final electronics provides preliminary time resolution of 0.6 ns







Hall-B Equipment





Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment Volume 959, 11 April 2020, 163475



The CLAS12 Forward Tagger



A. Acker^a, D. Attié^a, S. Aune^a, J. Ball^a, P. Baron^a, M. Bashkanov^b, M. Battaglieri^{c, d} A ⊠, R. Behary^e, F. Benmokhtar^e, A. Bersani^c, Q. Bertrand^a, D. Besin^a, T. Bey^a, P. Black^f, P. Bonneau^d, F. Bossù^a, R. Boudouin^a, M. Boyer^a ... L. Zana^d



Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment Volume 964, 1 June 2020, 163791



The CLAS12 Ring Imaging Cherenkov detector

M. Contalbrigo ^a \approx \boxtimes , V. Kubarovsky ^f, M. Mirazita ^b, P. Rossi ^{f, b}, G. Angelini ^{b, j}, H. Avakian ^f, K. Bailey ^g, I. Balossino ^a, L. Barion ^a, F. Benmokhtar ^h, P. Bonneau ^f, W. Briscoe ^j, W. Brooks ^k, E. Cisbani ^c, C. Cuevas ^f, P. Degtiarenko ^f, C. Dickover ^f, K. Hafidi ^g ... A. Yegneswaran ^f





Forward Tagger in Hall-B



Part of CLAS12: low-Q² events e, γ detection trigger

Installed in 07/2017

In use since 02/2018









RICH in Hall-B



Part of CLAS12:

Hadron identification 3-8 Gev/c momentum range

Installed in 01/2018

In use since 02/2018











Installation expected at the end of 2021

In time for the start of demanding polarized target experiments

Component production in line with JLab schedule (only ~ 4 months delay due to COVID)

Mechanical composite structure





Glass-skin mirrors







Aerogel storage in dry-cabinets





HD-ice







HD-ice tests at UITF Apparatus under commissioning



Distillation and Raman analysis of the HD gas purity







Target Holding Magnet









MgB2 trapped magnetization after transition to superconductor



Temperature dependence







Feasibility study, equipment and running of light dark matter search experiemnts





Mini-BDX:

Parasitical run Beyond Hall-A dump 2.2 GeV beam energy 2x10²¹ EOT in spring Streaming readout tests

Positron @ JLab

White paper Loi in preparation for PAC49 ('21)

