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Plots

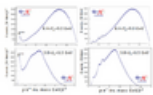
[Add new plot](#) (Please upload a true vector PDF or EPS plot, and not simply a rasterized image converted to PDF or EPS)

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APS-DNP 2016

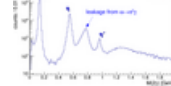
Commissioning - 2016

(Pi+ Proton) and (Pi- Proton) Invariant Mass
DNP2016



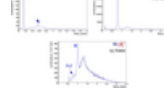
[DNP2016_jz2.pdf](#)
Preliminary

2 gamma invariant mass



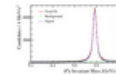
[dnp16_2gamma.pdf](#)
Preliminary

3 gamma distributions



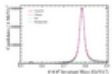
[dnp16_3gamma.pdf](#)
Preliminary

3 gamma mass: B boson search



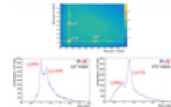
[full_bpi0g_sep_init.pdf](#)
Preliminary

3 pion mass: B boson search



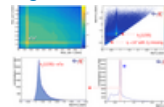
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Preliminary

4 gamma distributions



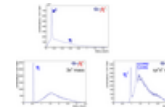
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Preliminary

5 gamma distributions



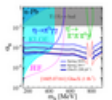
[dnp16_5gamma.pdf](#)
Preliminary

6 gamma distributions



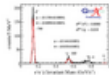
[dnp16_6gamma.pdf](#)
Preliminary

B boson reach prediction



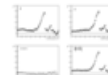
[Bboson_exclusion.pdf](#)
Preliminary

e+e-gamma invariant mass



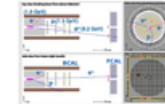
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Preliminary

Energy dependence of rho beam asymmetry



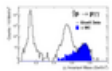
[PSigma_rebin.pdf](#)
Preliminary

Example J/psi event



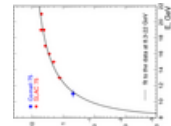
[example_jpsi_event.pdf](#)
Preliminary

Exclusive 2gamma mass distribution



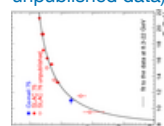
[fig2_M2g.pdf](#)
Preliminary

J/psi cross section summary



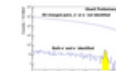
[glx_jpsi_xsec_2.pdf](#)
Preliminary

J/psi cross section summary (w/
unpublished data)



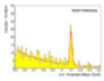
[glx_jpsi_xsec_1.pdf](#)
Preliminary

J/psi electron ID



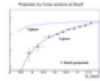
[eid.pdf](#)
Preliminary

J/psi invariant mass



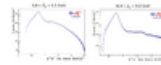
[invmass_titlechange.pdf](#)
Preliminary

J/psi projections



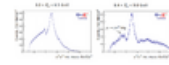
[jpsi_photoprod_gluex.pdf](#)
Preliminary

Pi+ Pi- Invariant Mass DNP2016



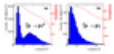
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Preliminary

Pi0 Pi0 Invariant Mass DNP2016



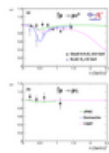
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Preliminary

Preliminary pi0/eta -t distributions



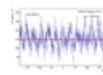
[fig3_t.pdf](#)
Preliminary

Preliminary Pi0/eta Beam Asymmetry



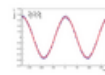
[fig5_Sigma_prelim.pdf](#)
Preliminary

rho polarisation AMORPHOUS



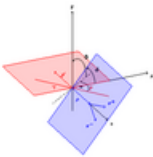
[Amor.pdf](#)
Preliminary

rho polarisation ASYMMETRY



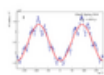
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Preliminary

rho polarisation coordinate systems



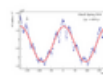
[GlueX_coordinates_2.pdf](#)
Preliminary

rho polarisation PARA



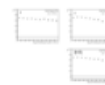
[Para.pdf](#)
Preliminary

rho polarisation PERP



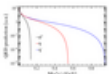
[Perp.pdf](#)
Preliminary

t dependence of rho beam asymmetry



[PSigma_vs_T.pdf](#)
Preliminary

Transition Form Factor QED Prediction

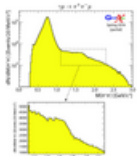


[qedpredictions_pi_eta_pr.pdf](#)
Preliminary

Physics results

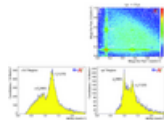
Commissioning - 2016

2pi mass distribution



[m2pi.pdf](#)
Preliminary

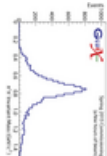
4 gamma distributions: pi0-pi0 mass and pi0-eta mass



[four_gamma.pdf](#)
Preliminary

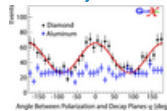
Commissioning - Spring 2015

2pi mass distribution



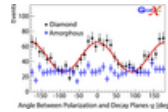
[p2piMass.pdf](#)
Preliminary

Angular distribution of rho decay



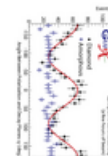
[figure_05b.pdf](#)
Preliminary

Decay angular distribution for the rho meson



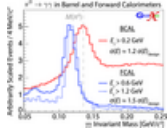
[rho_decay_plane.pdf](#)
Preliminary

Decay asymmetry of the rho meson



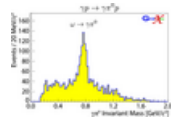
[piplusPsi-1.pdf](#)
Preliminary

Neutral pions reconstructed in BCAL and in FCAL



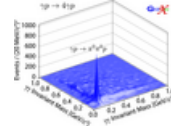
[pi0_calor.pdf](#)

Preliminary

The $g\bar{p} \rightarrow p\ 3\pi$ reaction

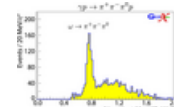
[gp_gp0p_reac.pdf](#)

Preliminary

The invariant mass of two photons for the $g\bar{p} \rightarrow p\ 4\pi$ final state.

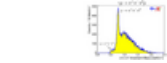
[gp_4gp_reac.pdf](#)

Preliminary

Three pion invariant mass for $g\bar{p} \rightarrow p\ 3\pi$ 

[gp_3pip_reac.pdf](#)

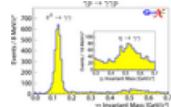
Preliminary

Three pion invariant mass for $g\bar{p} \rightarrow p\ 3\pi$ with improved calibrations

[figure_p3pi.pdf](#)

Final

Two gamma invariant mass



[gp_ggp_reac.pdf](#)

Preliminary

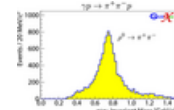
Two gamma invariant mass with improved calibrations



[figure_p2gamma.pdf](#)

Final

Two-pion invariant mass showing the rho meson

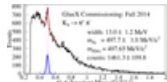


[rho_peak.pdf](#)

Preliminary

Commissioning - Fall 2014

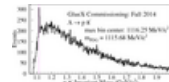
Kshort reconstruction



[Ks_Feb15.pdf](#)

Preliminary

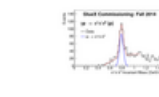
Lambda reconstruction



[Lambda_Feb15.pdf](#)

Preliminary

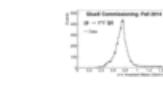
Omega reconstruction



[omega_feb15.pdf](#)

Preliminary

Rho reconstruction



[rho.pdf](#)

Preliminary

Photon beam and polarization

Commissioning - Spring 2015

Beamline schematic



[photon_beamline.pdf](#)

Final

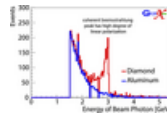
Calculated linear polarization



[polariz_calc.pdf](#)

Preliminary

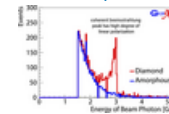
Coherent enhancement in photon beam



[figure_02.pdf](#)

Preliminary

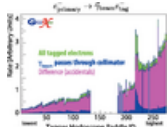
Coherent peak in the tagger



[coherent_peak.pdf](#)

Preliminary

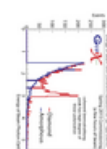
Photon energy in the tagger



[tagger_spectrum.pdf](#)

Preliminary

Photon Energy Spectrum



[rhoEgamma_rot.pdf](#)

Preliminary

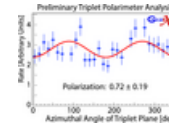
The goniometer with a 50micron diamond.



[goniometer.pdf](#)

Preliminary

The linear polarization as measured by the triplet polarimeter

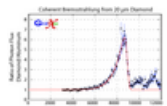


[triplet_polarimeter.pdf](#)

Preliminary

Commissioning - 2016

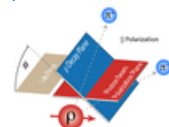
enhancement plot 20 um diamond



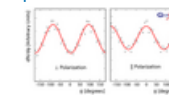
polarization model fit to enhancement



rho angles parallel polarization



rho angular distribution parallel and perpendicular polarization



[para_perp.pdf](#)

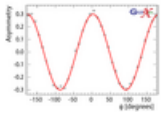
 [diam_over_am.pdf](#)
Preliminary

 [pol_model.pdf](#)
Preliminary

 [rho_angles.pdf](#)
Preliminary

Preliminary

[rho beam asymmetry](#)

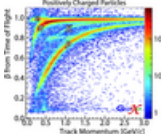


 [rho_asym.pdf](#)
Preliminary

Detector performance

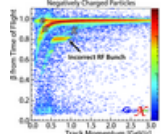
Commissioning - Spring 2015

[Beta versus p from the time-of-flight detector for positively charged particles](#)



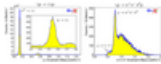
 [tof_positive.pdf](#)
Preliminary

[Beta versus p using time-of-flight information for negatively charged particles](#)



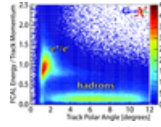
 [tof_negative.pdf](#)
Preliminary

[Detector Performance as of November 2015](#)



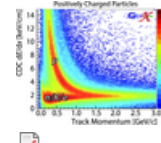
 [figure_03.pdf](#)
Preliminary

[E/p for charged particles in the FCAL](#)



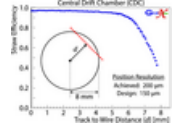
 [fcal_ep.pdf](#)
Preliminary

[CDC dE/dx](#)



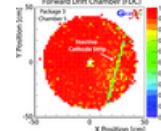
 [cdc_dedx.pdf](#)
Preliminary

[CDC Efficiency as a function of drift distance.](#)



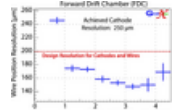
 [cdc_eff.pdf](#)
Preliminary

[FDC efficiency](#)



 [fdc_eff.pdf](#)
Preliminary

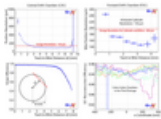
[FDC resolution as a function of drift distance.](#)



 [fdc_res.pdf](#)
Preliminary

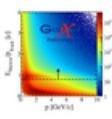
Commissioning - 2016

[drift chamber resolution](#)



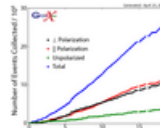
 [tracking.pdf](#)
Preliminary

[Electron E/p vs momentum](#)



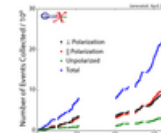
 [EOverPVsP_new.pdf](#)
Preliminary

[Final triggers vs time \(machine downtime removed\)](#)



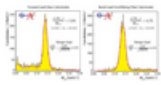
 [triggers_vs_time_spring2016.pdf](#)
Preliminary

[Final triggers vs time since start of run](#)



 [triggers_since_start_spring2016.pdf](#)
Preliminary

[pi0 mass resolution](#)



 [pi0_res.pdf](#)
Preliminary

Theory

Theory

[Lattice QCD meson spectrum Dudek 2013](#)



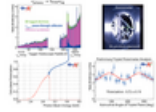
 840_V24_spectrum.pdf

Final

Composite images

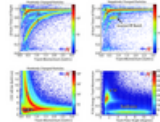
Commissioning - Spring 2015

Linear polarization in the Hall-D beamline


 beamline.pdf

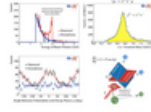
Final

Particle identification performance as of July 2015


 pid.pdf

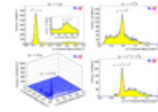
Final

Polarization transfer in rho photoproduction.


 rho_production.pdf

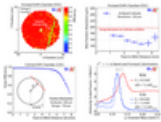
Final

Reconstructed mass peaks in the GlueX detector - July 2015.


 mass_peaks.pdf

Final

Tracking and calorimeter performance

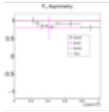

 tracking_calor.pdf

Final

APS-DNP 2017

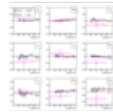
Spring 2017 low intensity

Phi(1020) parity asymmetry from SDMEs


 2017-low-Pasym-DNP.pdf

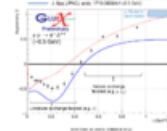
Preliminary

Phi(1020) SDMEs as a function of |t|


 2017-low-DNP.pdf

Preliminary

Pi-Delta++ Prelim Asymmetry

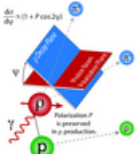

 PimDeltapp_PrelimAsymm.pdf

Preliminary

Other

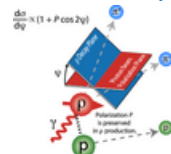
Commissioning - Spring 2015

Polarization transfer to the rho meson


 polarization_transfer.pdf

Final

Rho meson decay plane definitions


 rho_production.pdf

Final