

d_2^n JLab Collaboration Meeting

OutLine

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Outline

1 BigBite Analysis Update

2 Target Analysis Update

BigBite Analysis Update

1 Trigger Change List

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- 2 Run Stat List

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- 3 Coverage

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- 4 Čerenkov Performance
 - Electron Efficiency
 - Pion Rejection

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- 5 BigBite Pion Rejection (see 01/05/2012 talk)

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- 7 Temporary Target Polarization

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- 9 Asymmetries
 - Electron Asymmetry
 - 4 and 5 Pass Raw Electron Asymmetries
 - 4 and 5 Pass Long. and Trans. Electron Asymmetries
 - Raw Positron Asymmetries
 - Pion Asymmetries

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- 10 Current d_2 Stat. Error

BigBite To Do

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- Correct for bend-up bend-down acceptance
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- Pion rejection ratio: $\sim 10^4$
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5 Systematic Study

1 Density

- Target Setup Change Plot
- RTDs
- Pumping Chamber Density
- Target Chamber Density

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2 EPR Analysis

- Pumping Chamber Polarization

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3 NMR

- Water Analysis

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 - Bloch Equations
 - Water NMR Fit
 - Water Calibration Constant

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- Skim through NMR measurements over experiment