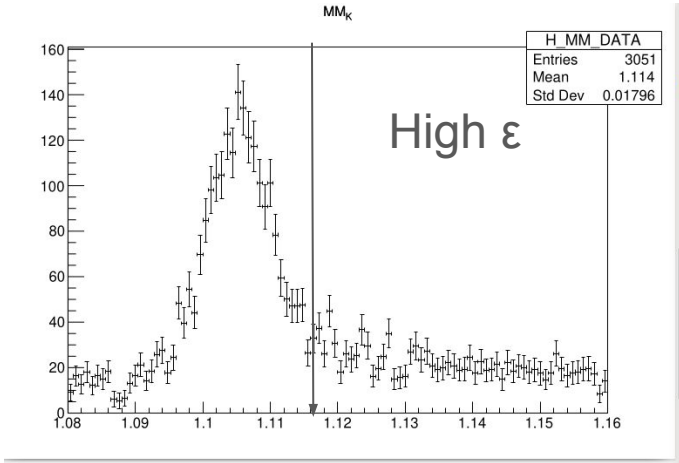
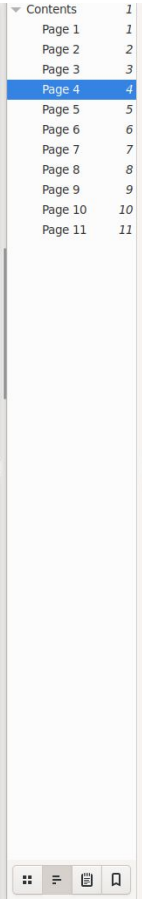
KaonLT Meeting

November 21st, 2024

Richard Trotta

Q^2=2.115, W=2.95


MM_K
H_MM_DATA
Entries 3051
Mean 1.114
Std Dev 0.01796
High ε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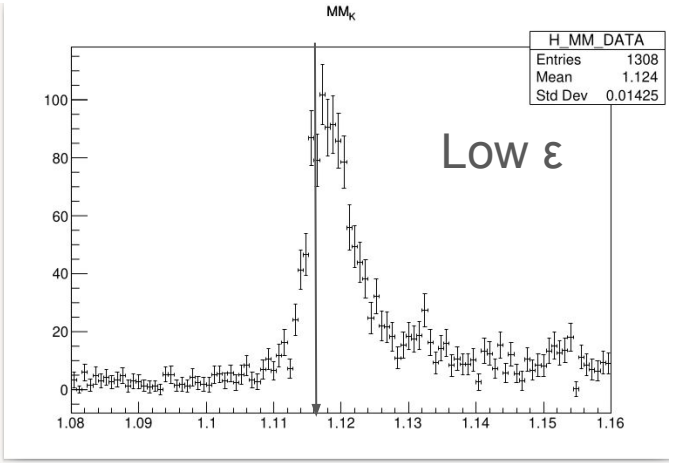
MM_K
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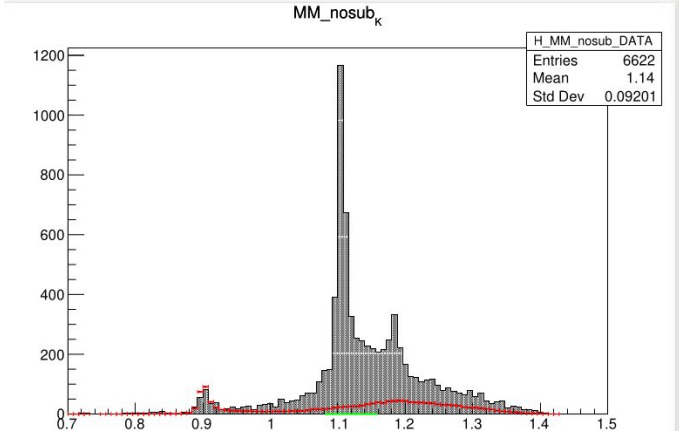
Entries 1308
Mean 1.124
Std Dev 0.01425
Low ε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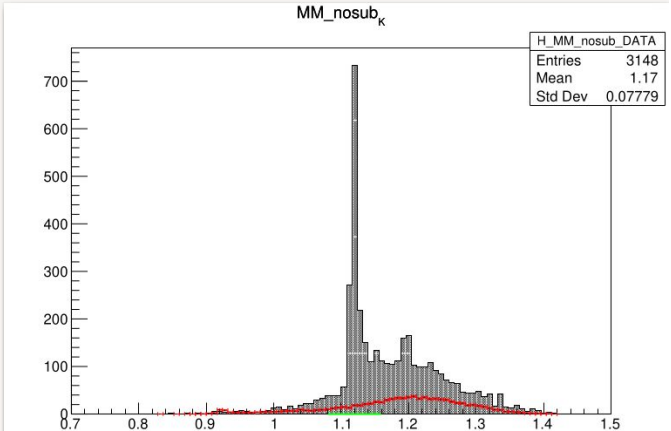
Entries 6622
Mean 1.14
Std Dev 0.09201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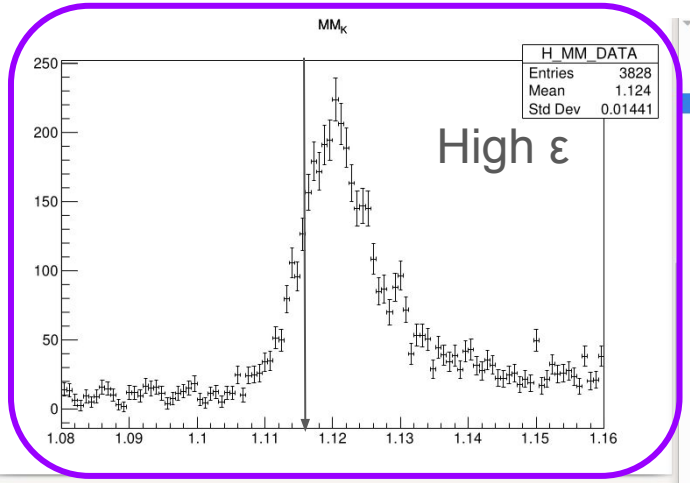
Entries 3148
Mean 1.17
Std Dev 0.07779

Q^2=3.0, W=2.32


MM_K
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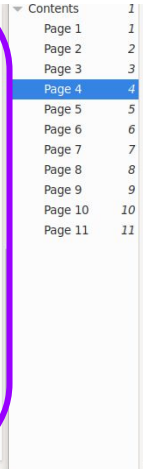
Entries 3828
Mean 1.124
Std Dev 0.01441
High ε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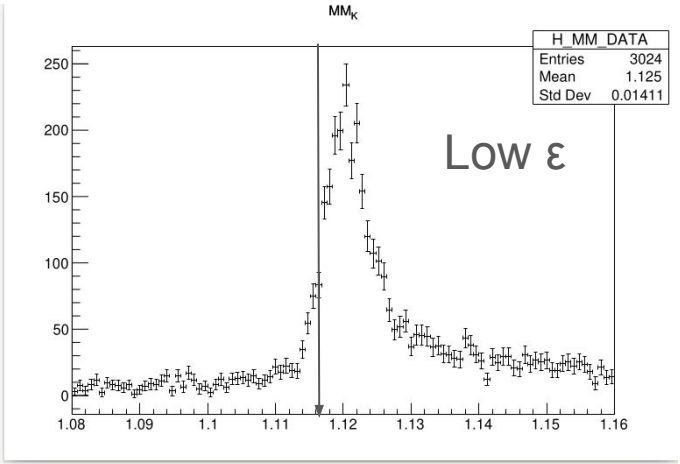
MM_K
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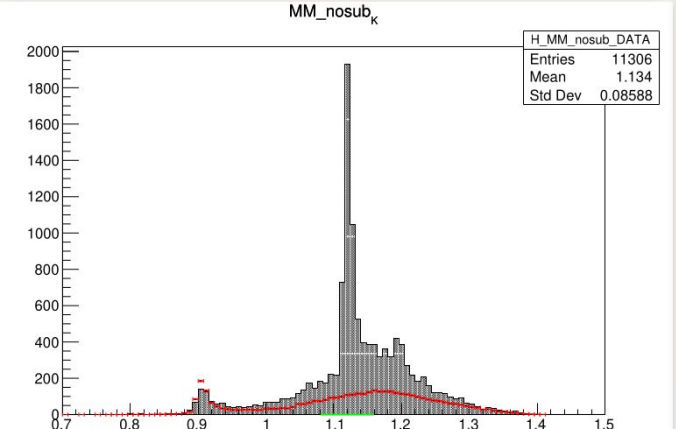
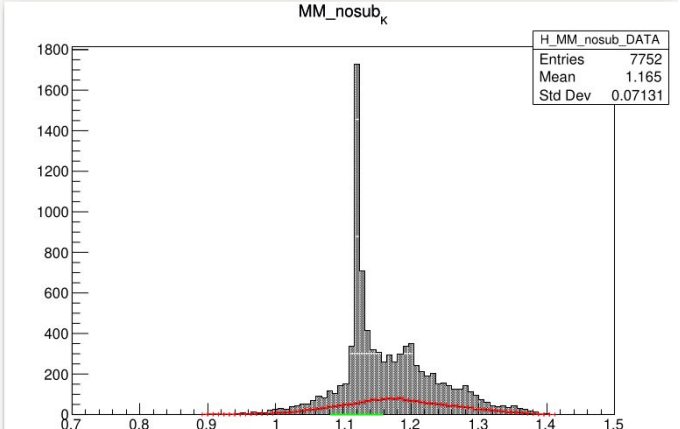
Entries 3024
Mean 1.125
Std Dev 0.01411
Low ε


MM_nosub_K
H_MM_nosub_DATA
Entries 11306
Mean 1.134
Std Dev 0.08588


MM_nosub_K
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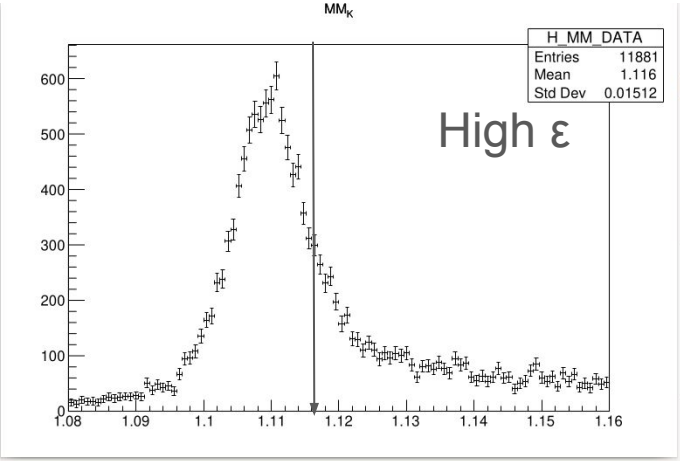
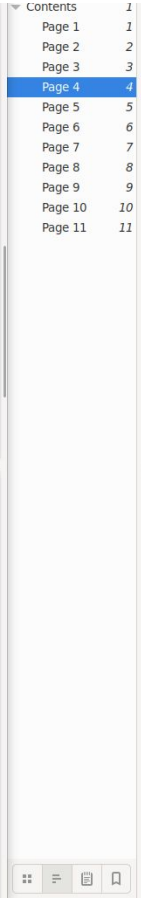
Entries 7752
Mean 1.165
Std Dev 0.07131

Q^2=3.0, W=3.14


MM_K
H_MM_DATA
Entries 11881
Mean 1.116
Std Dev 0.01512
High ε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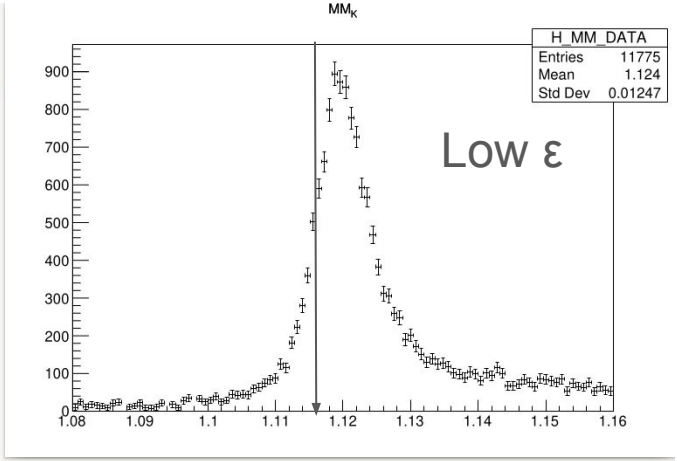
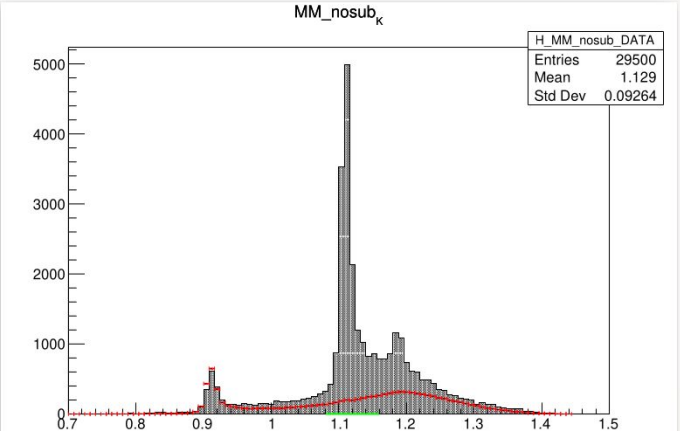

MM_K
H_MM_DATA
Entries 11775
Mean 1.124
Std Dev 0.01247
Low ε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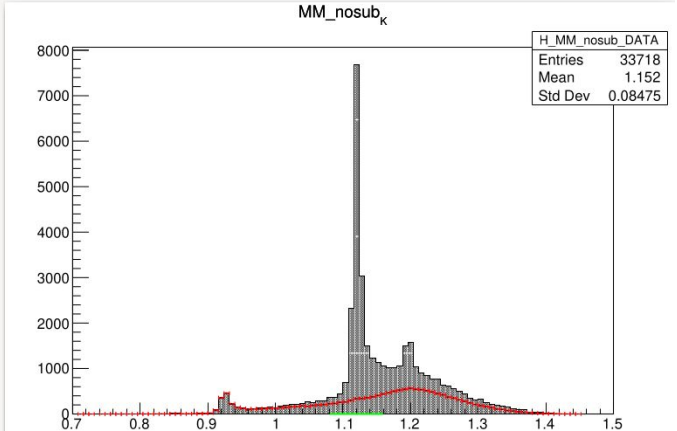
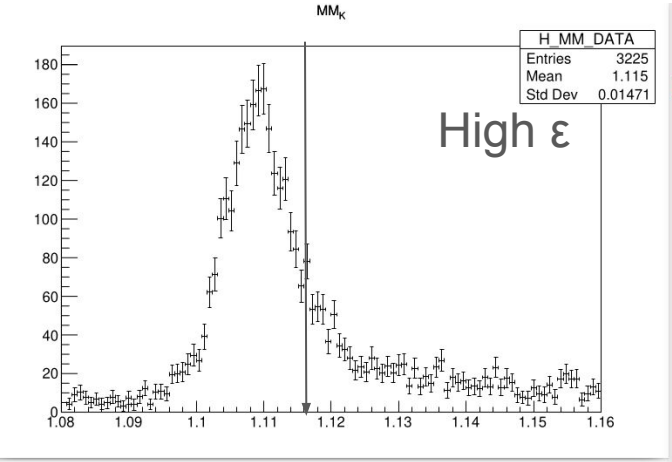
Entries 29500
Mean 1.129
Std Dev 0.09264


MM_nosub_K
H_MM_nosub_DATA
Entries 33718
Mean 1.152
Std Dev 0.08475

Q^2=4.4, W=2.74


MM_K
H_MM_DATA
Entries 3225
Mean 1.115
Std Dev 0.01471
High ε

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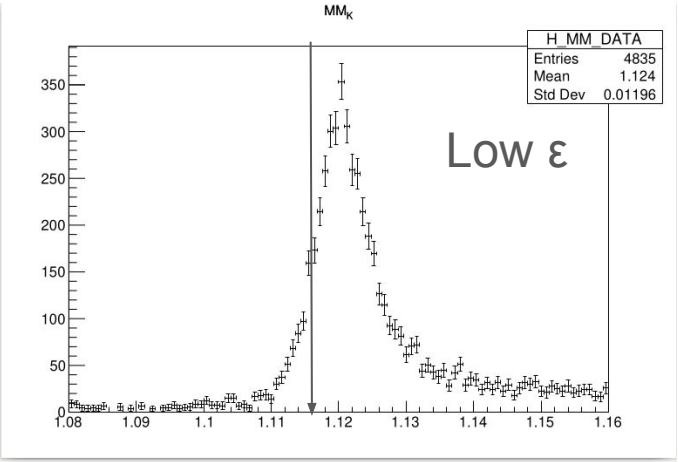
MM_K
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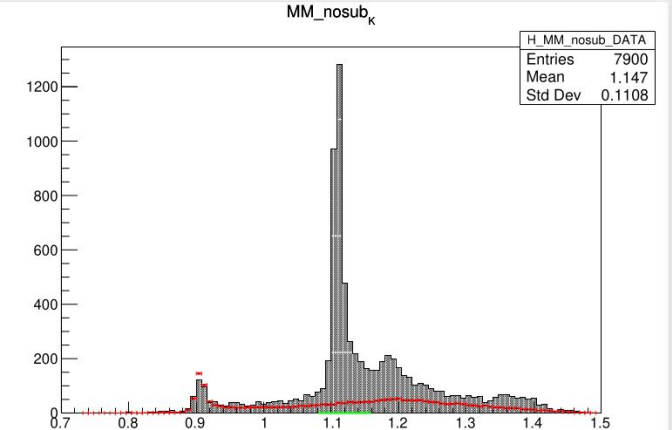
Entries 4835
Mean 1.124
Std Dev 0.01196
Low ε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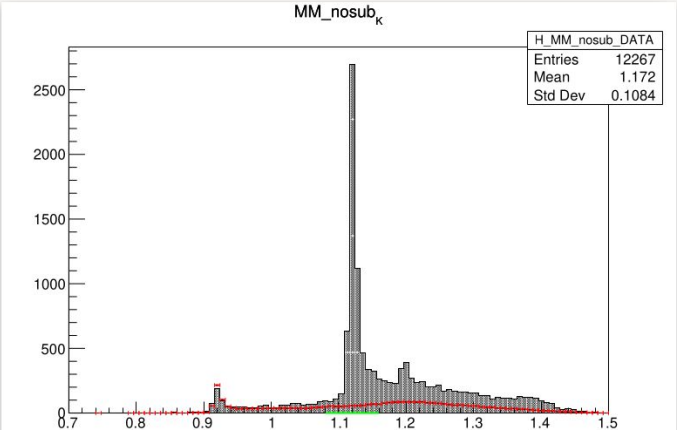
Mean 1.147
Std Dev 0.1108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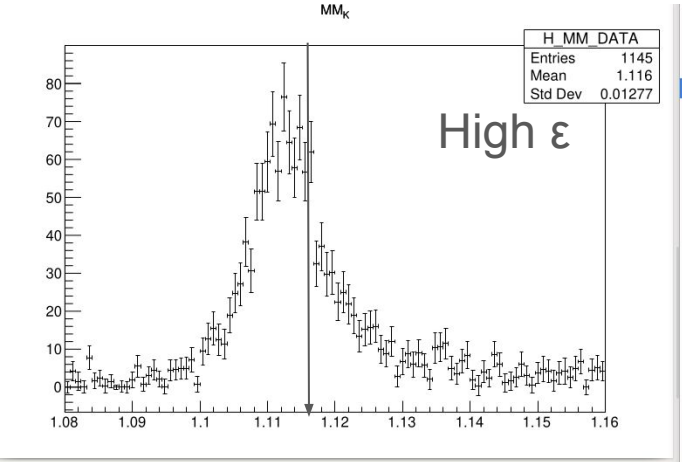
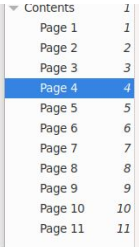
H_MM_nosub_DATA
Entries 12267
Mean 1.172
Std Dev 0.1084

Q^2=5.5, W=3.02


MM_K
H_MM_DATA
Entries 1145
Mean 1.116
Std Dev 0.01277
High ε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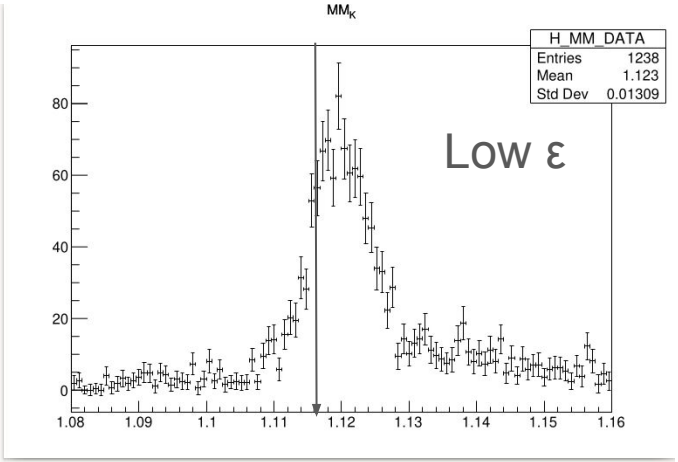
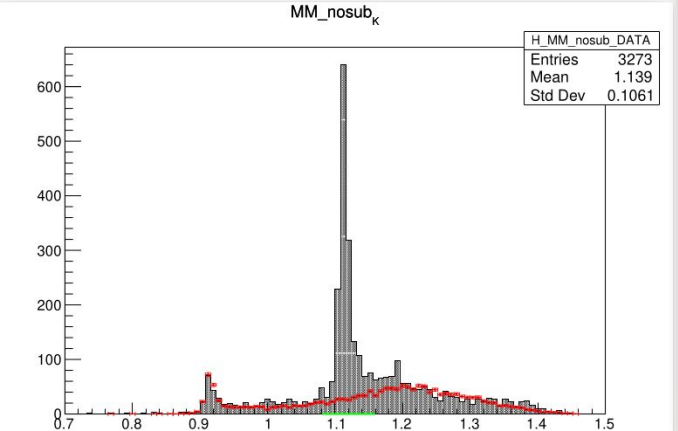

MM_K
H_MM_DATA
Entries 1238
Mean 1.123
Std Dev 0.01309
Low ε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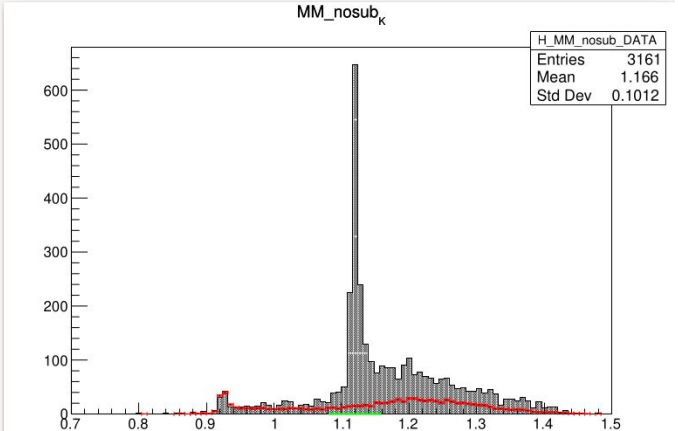
Mean 1.139
Std Dev 0.1061


MM_nosub_K
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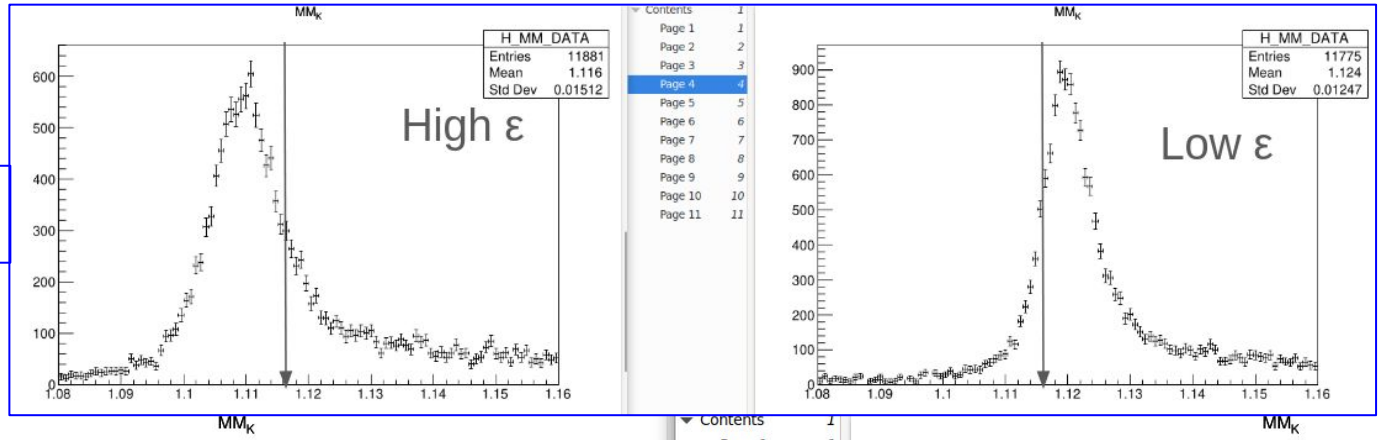
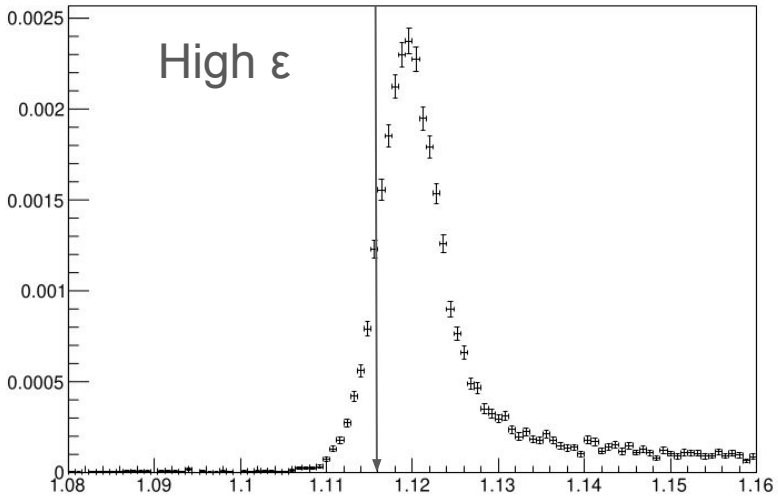
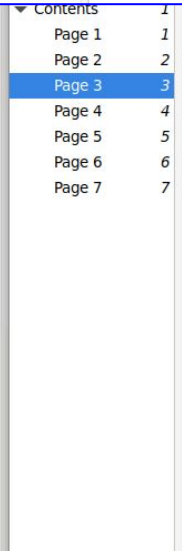
Entries 3161
Mean 1.166
Std Dev 0.1012

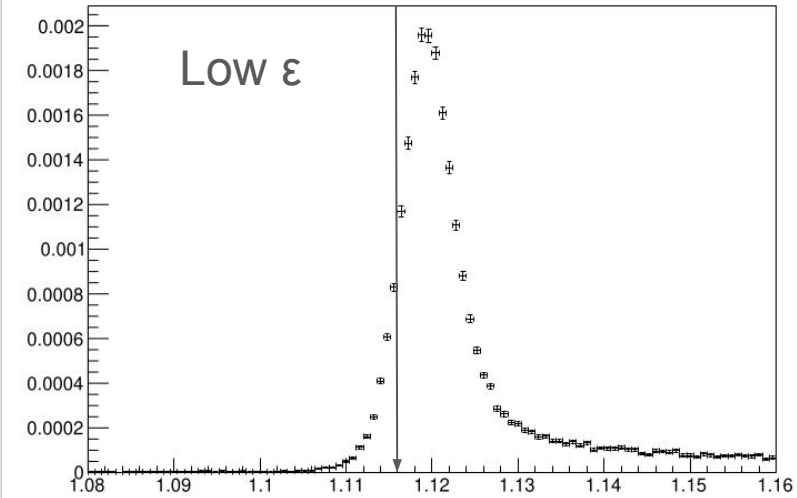
SIMC: Q^2=3.0, W=3.14

Data:









Tracking Down Cause

1. ~~Check consistency of energy values in standard.kinematics~~
2. Check stability of beam energy across 10.6 and 6.2
    - Q2=3.0, W=2.32: which ran first for both high and low epsilon does not follow the trends of all other Q2
3. Check SIMC input file kinematics to assure offsets are applied properly