

Emittance Analysis Solenoid Mode

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08/08/2019 / MICE Video Conference 212

Run Selection

Shown :

CC : 2017-02-6

6 – 140 LH2-full – preliminary run

- 6-140-M3-Test2 – 09885 - MC + Data

Ongoing :

3, 10 – 140 - LH2-full

3-140-M3-Test3 – 09883

10-140-M3-Test4 – 09886

Also looking to :

CC : 2017-02-6

3, 6, 10 – 140

3 – 170, 200, 240

LH2, LH2-empty, Empty, LiH

Cuts

US :

1 TOF0 & TOF1 SP

TOF01

1 Scifi track US

Scifi fiducial US

Chi2 US

TOF01 vs P - banana cut

P tot US

US aperture

DS :

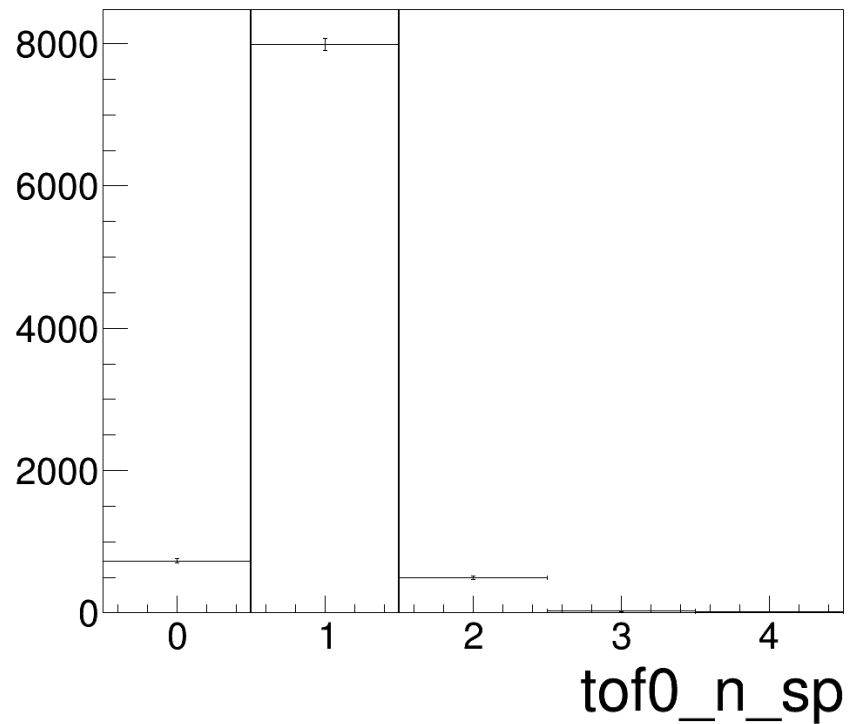
1 Scifi track DS

Chi2 DS

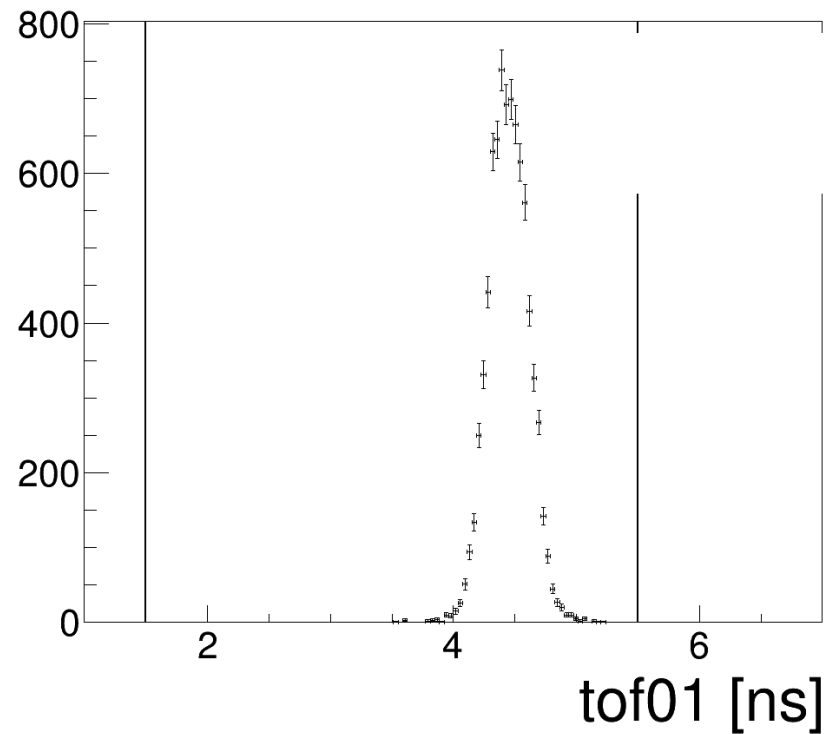
Scifi fiducial DS

09885 - Sample Selection

2017-02-6 6-140 IH2 full



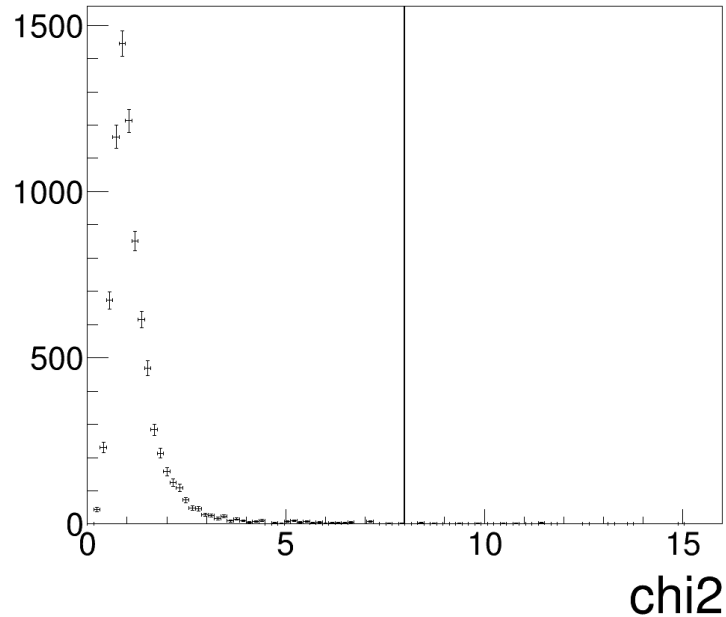
2017-02-6 6-140 IH2 full



09885 - Sample Selection

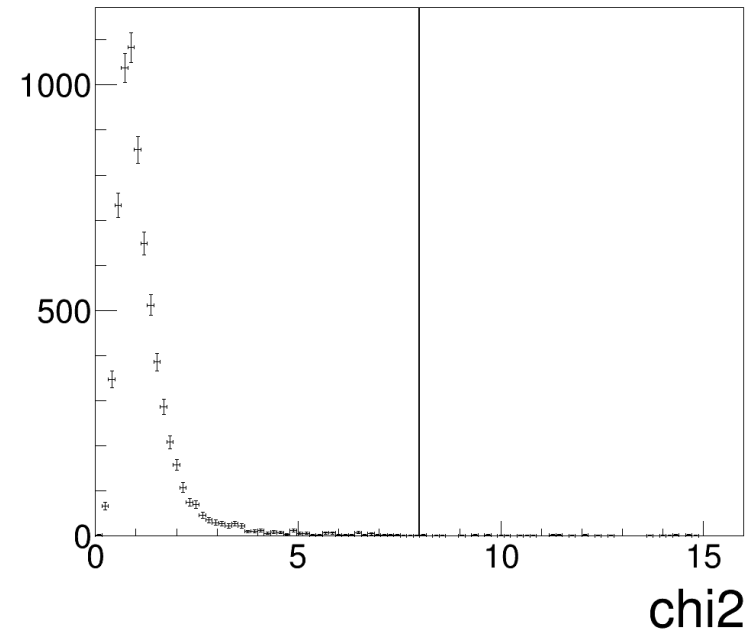
TKU Chi2

2017-02-6 6-140 IH2 full



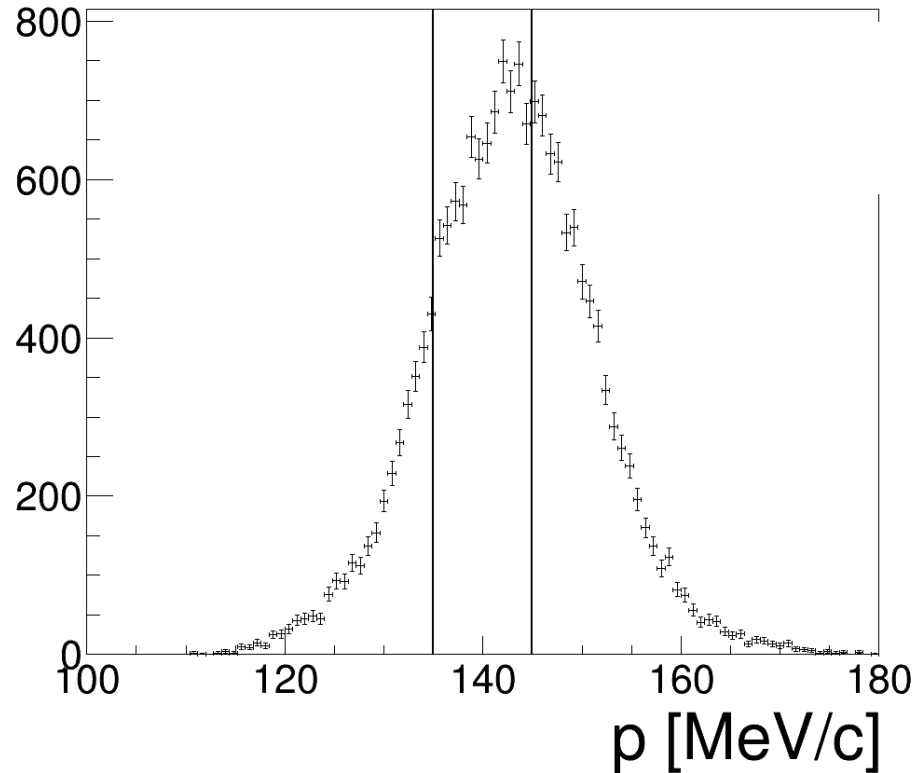
TKD Chi2

2017-02-6 6-140 IH2 full



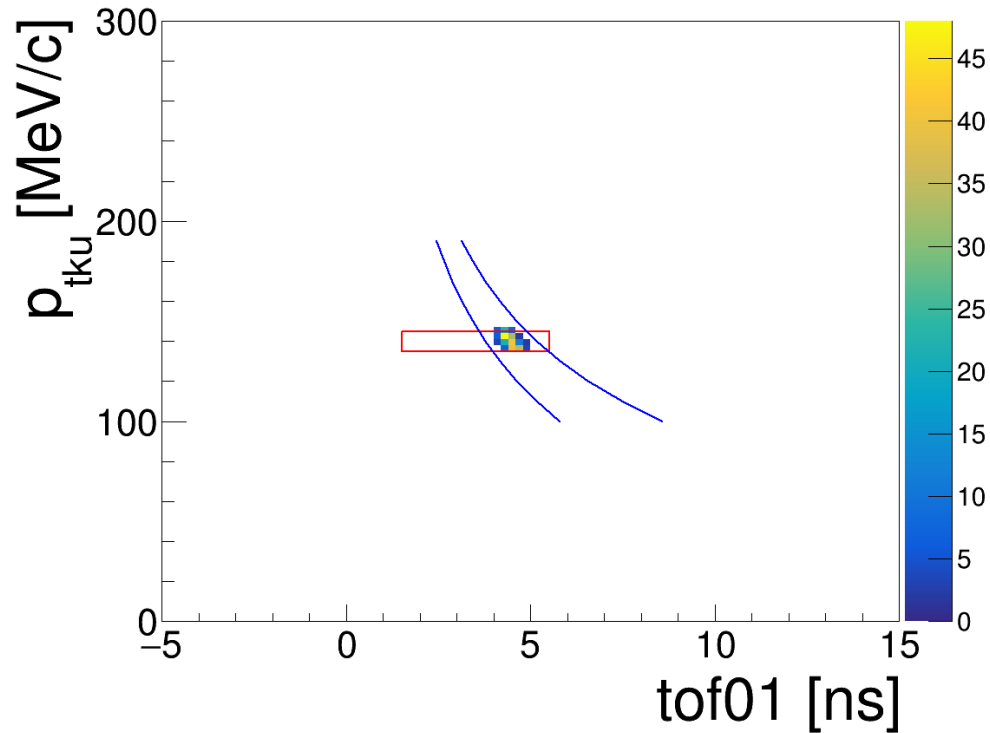
09885 - Sample Selection

Momentum Cut



09885 - Sample Selection

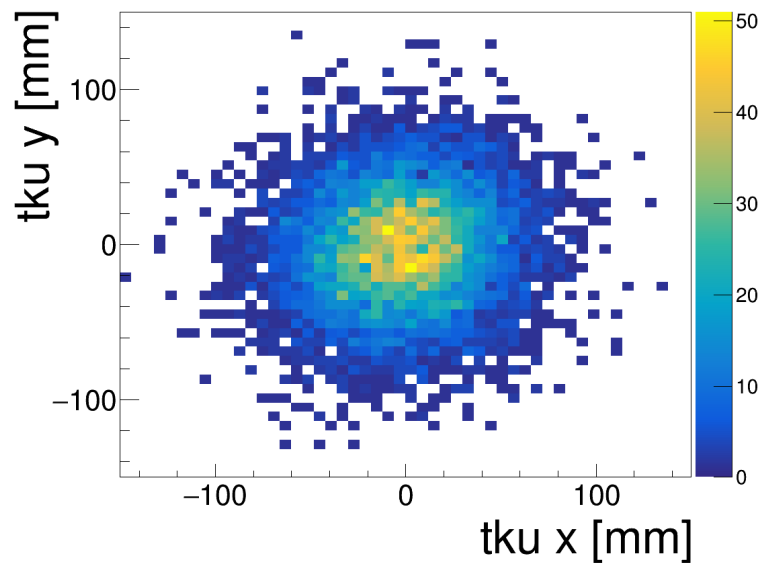
2017-02-6 6-140 IH2 full



09885 - Beam

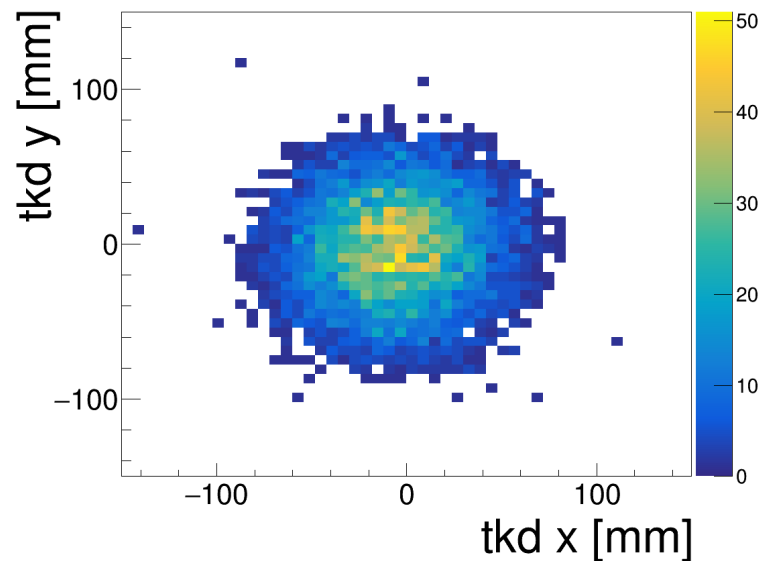
X-Y US

2017-02-6 6-140 IH2 full



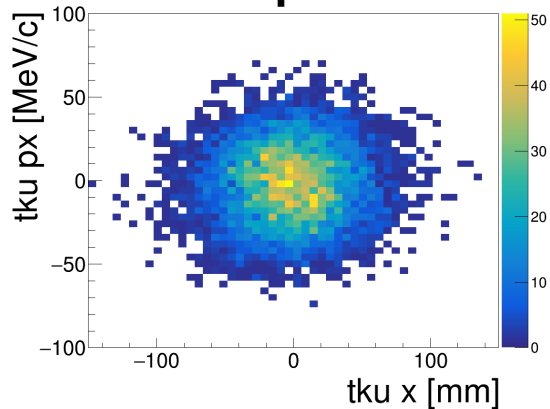
X-Y DS

2017-02-6 6-140 IH2 full



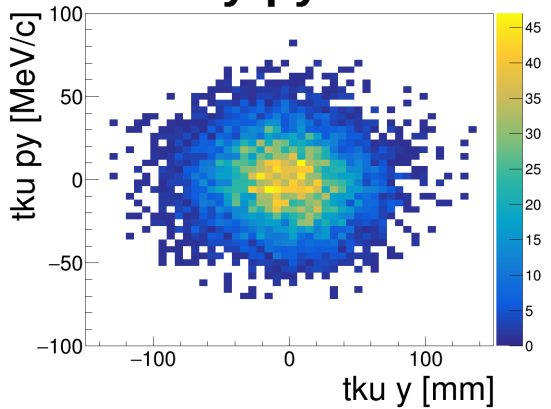
09885 - Beam

x-px



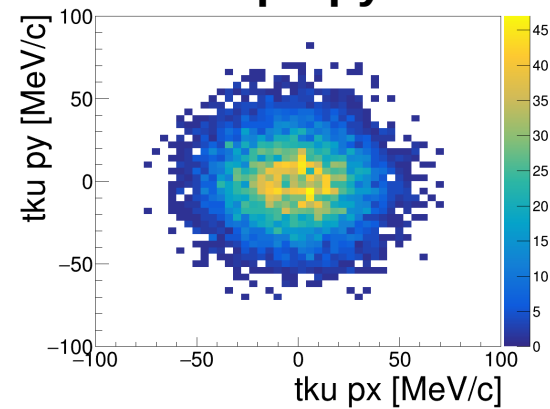
2017-02-6 6-140 IH2 full

y-py



2017-02-6 6-140 IH2 full

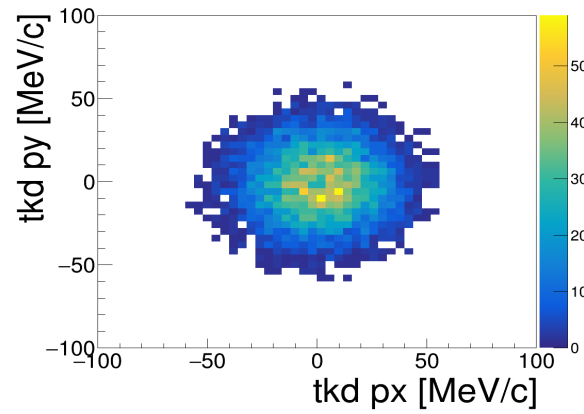
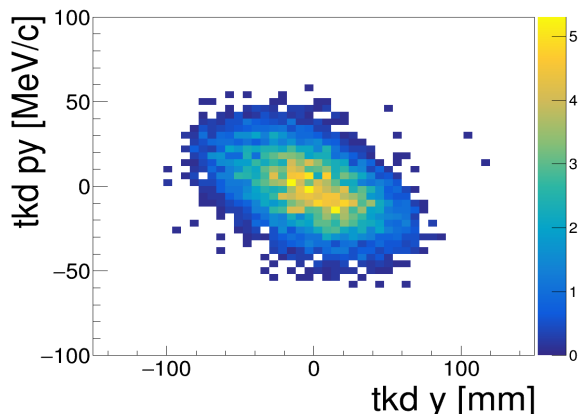
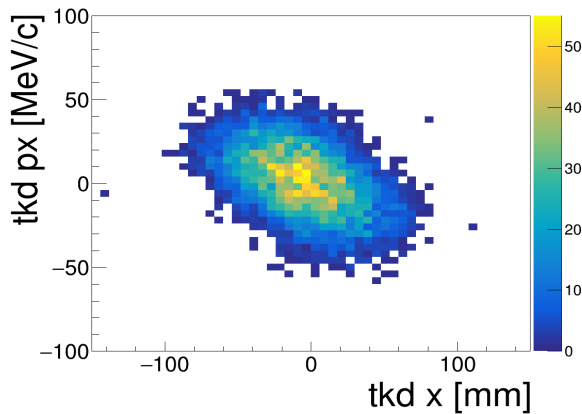
px-py



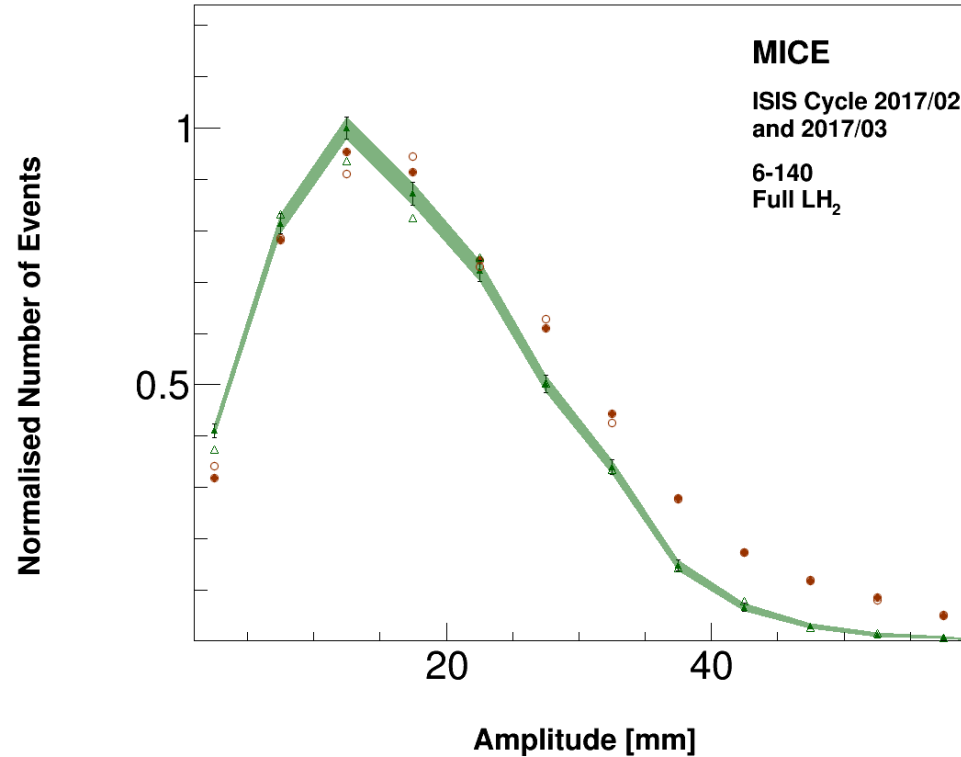
2017-02-6 6-140 IH2 full

US

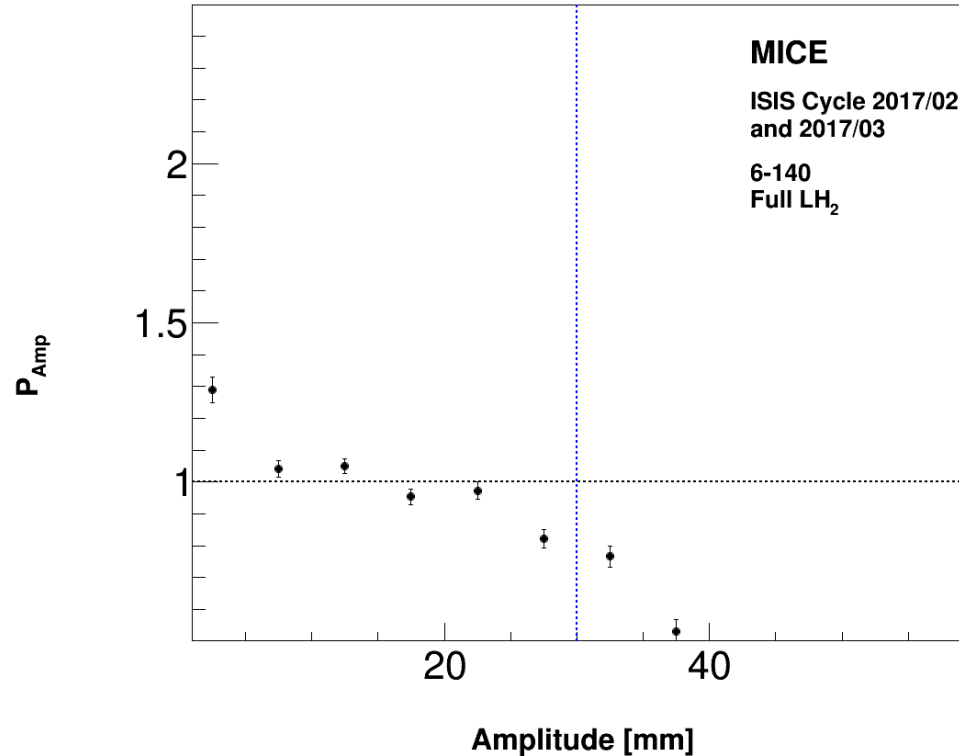
DS



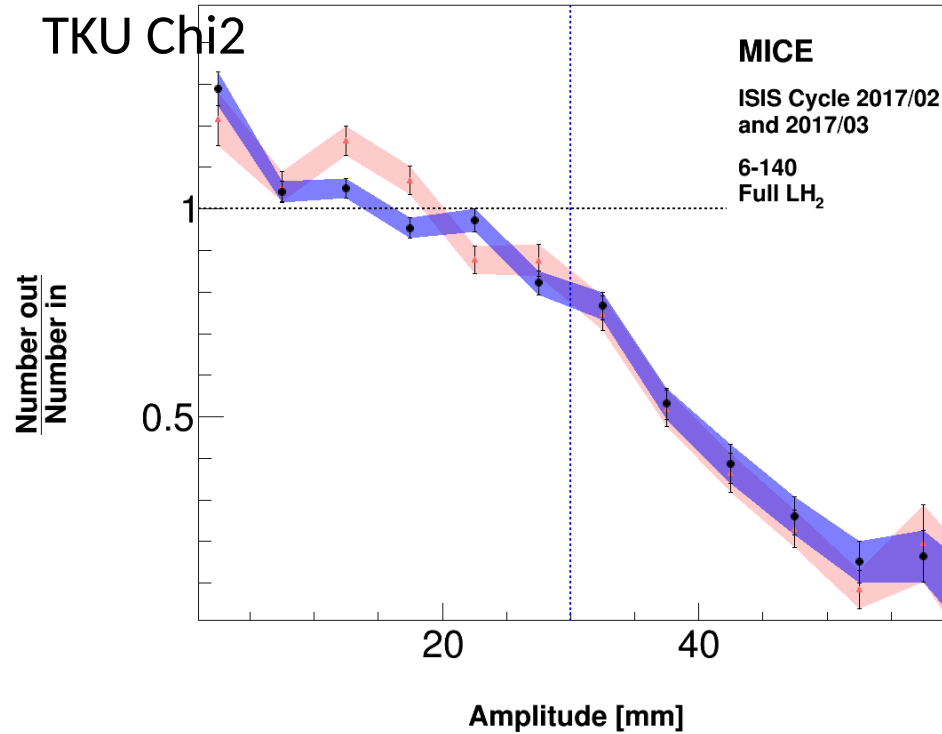
09885 - Amplitude Distributions - Data - PDF



09885 - Amplitude Distributions - Data - PDF Ratio



09885 - Data vs MC - PDF Ratio



Rerunning with full MC & full datasets

Also preparing 3,6,10-140 LH2-empty, LiH & Solid-Empty

Backup Slides

Cuts

US :

1 TOF0 & TOF1 SP

TOF01

1 Scifi track US

Scifi fiducial US

Chi2 US

TOF01 vs P - banana cut

P tot US

US aperture

Events: 41233

DS :

1 Scifi track DS

Chi2 DS

Scifi fiducial DS

Events: 35756