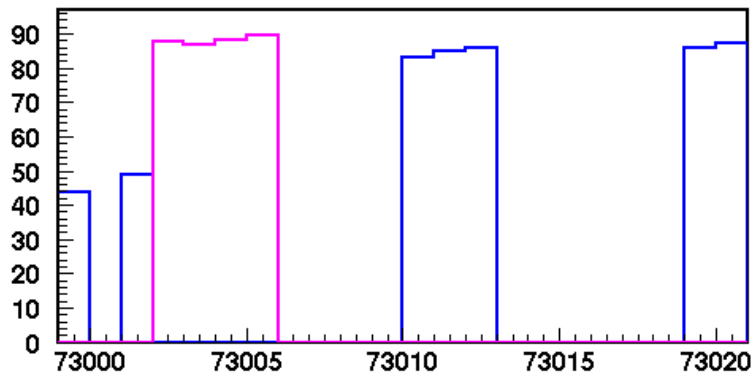
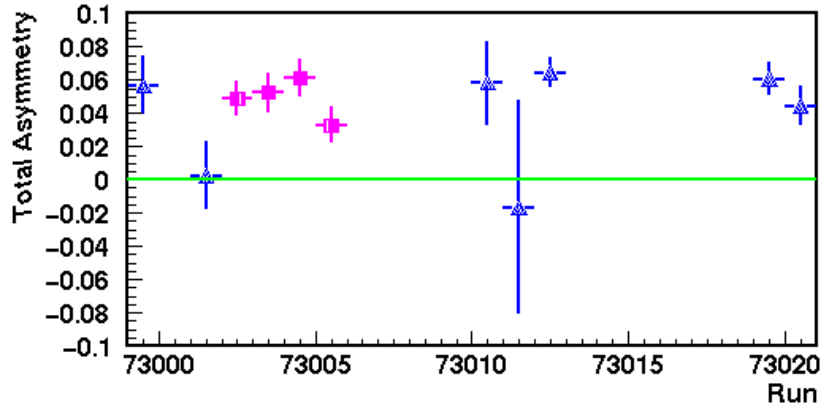


SANE inclusive HMS data

Hoyoung Kang

Seoul National University, Korea

HMS parallel runs



Run # 72999-73020

NH3 target, parallel magnetic field

4.7 GeV beam

HMS momentum: 3.2 GeV/c

HMS angle: 20.2 degree

$|\text{HMS_delta}| < 8\%$

Beam polarization $> 40\%$

Beam current > 55 nA

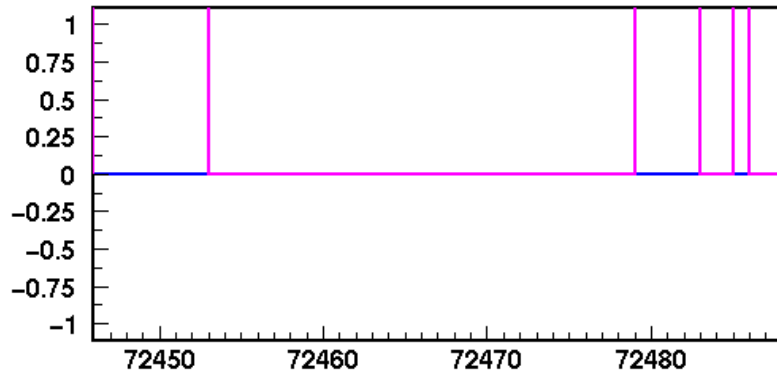
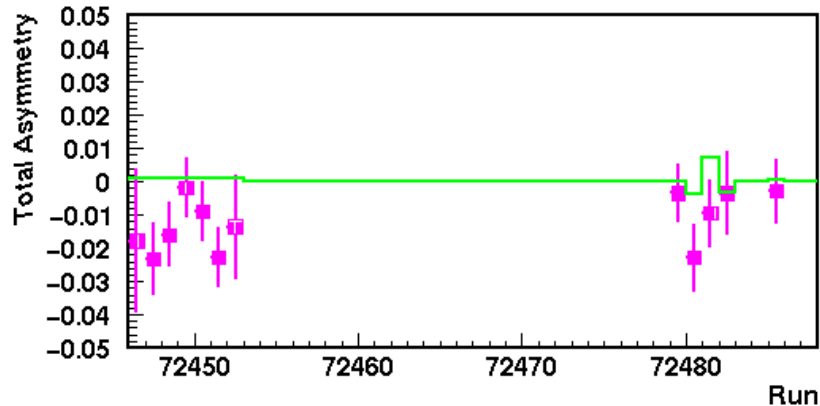
Charge normalized

dead time & polarization included

Pink : negative target polarization

Blue : positive target polarization

HMS perpendicular runs



Run # 72486-72487

NH3 target, perp. magnetic field

5.9 GeV beam

HMS momentum: 3.1 GeV/c

HMS angle: 15.4 degree

$|\text{HMS_delta}| < 8\%$

Beam polarization $> 40\%$

Beam current > 55 nA

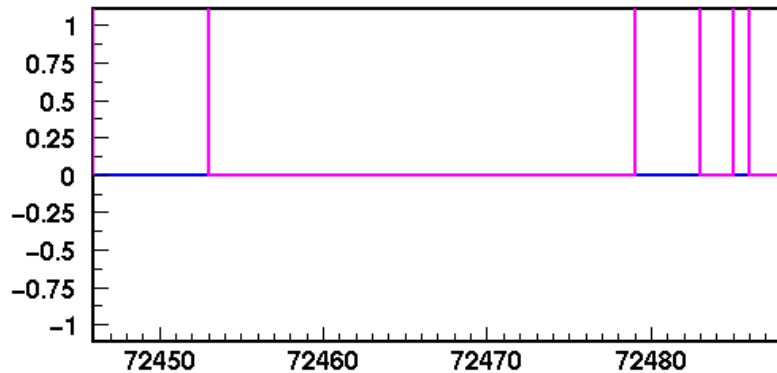
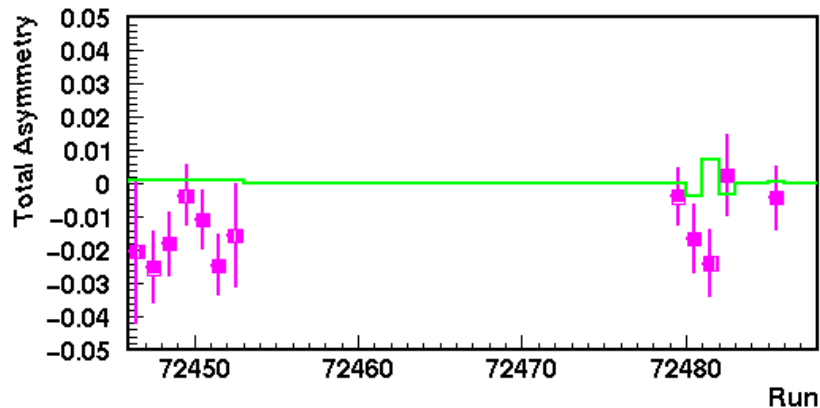
Charge normalized

Dead time & polarization included

Pink : negative target polarization

Blue : positive target polarization

HMS perpendicular runs without charge normalization



Run # 72486-72487

NH3 target, perp. magnetic field

5.9 GeV beam

HMS momentum: 3.1 GeV/c

HMS angle: 15.4 degree

$|\text{HMS_delta}| < 8\%$

Beam polarization $> 40\%$

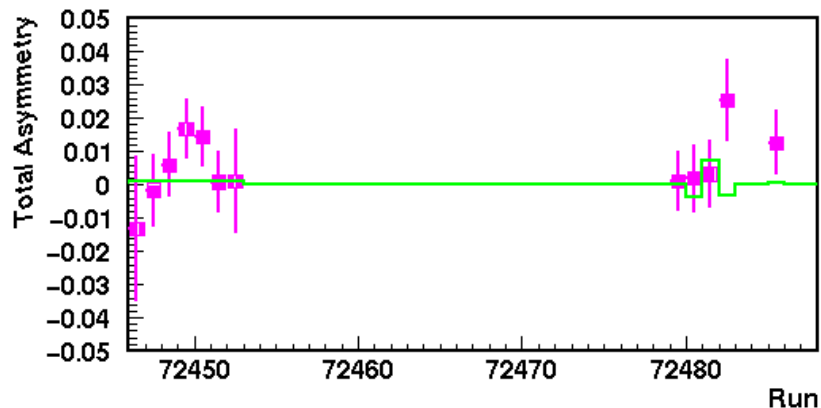
Beam current > 55 nA

Dead time & polarization included

Pink : negative target polarization

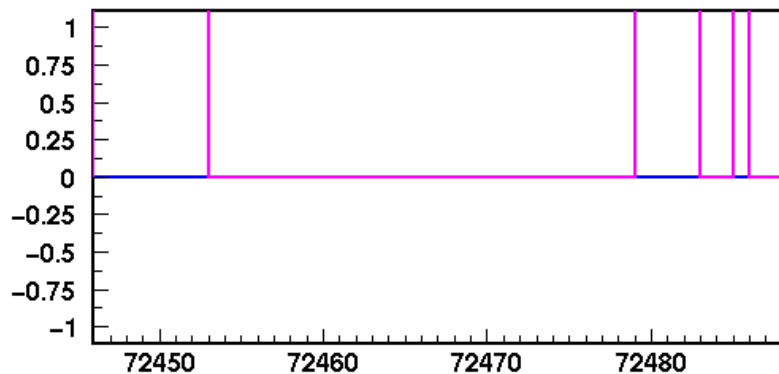
Blue : positive target polarization

HMS perpendicular runs without dead time correction



Run # 72486-72487
NH3 target, perp. magnetic field
5.9 GeV beam
HMS momentum: 3.1 GeV/c
HMS angle: 15.4 degree

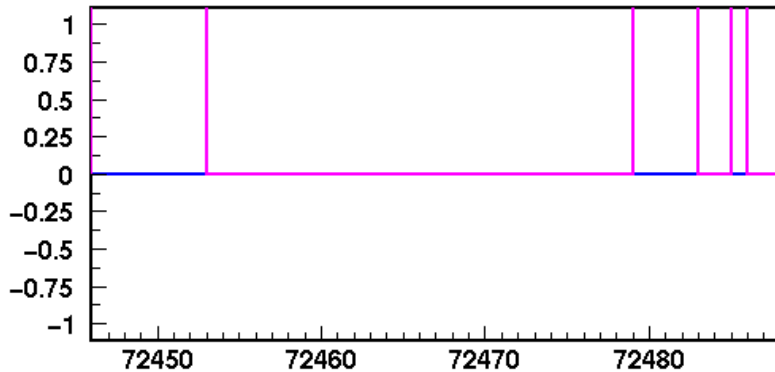
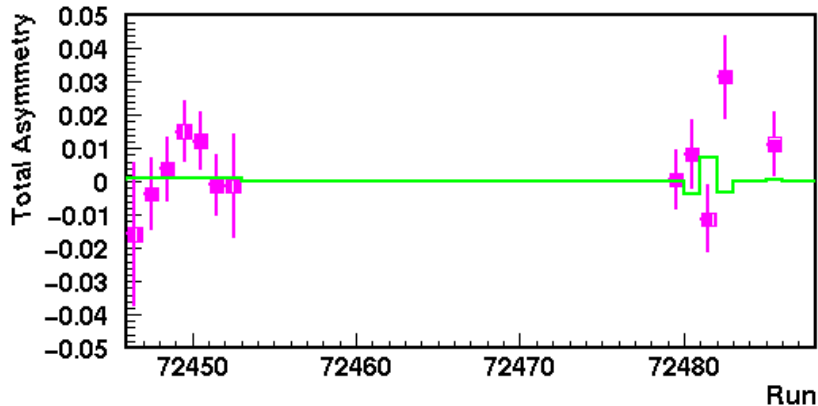
$|\text{HMS_delta}| < 8\%$
Beam polarization $> 40\%$
Beam current > 55 nA



Charge normalized
Polarization included

Pink : negative target polarization
Blue : positive target polarization

HMS perpendicular runs without charge norm. and dt cor.



Run # 72486-72487

NH3 target, perp. magnetic field

5.9 GeV beam

HMS momentum: 3.1 GeV/c

HMS angle: 15.4 degree

$|\text{HMS_delta}| < 8\%$

Beam polarization $> 40\%$

Beam current > 55 nA

Only polarization included

Pink : negative target polarization

Blue : positive target polarization