

# AMD analysis

Park JaeBeom

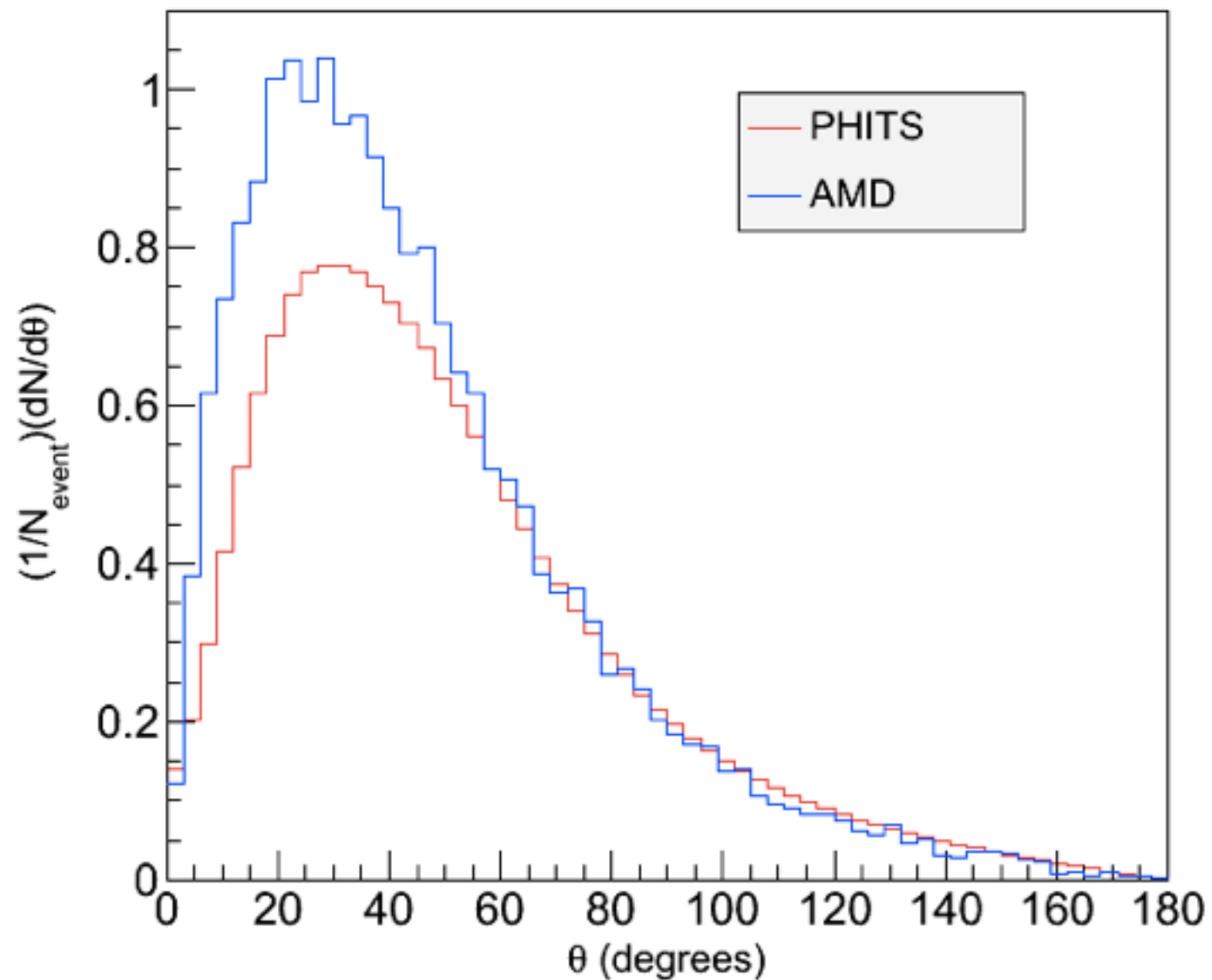
# $^{132}\text{Sn} + ^{124}\text{Sn}$ - AMD&PHITS

	AMD	PHITS
Number of Events	N	
Number of particles (per event)	$\langle N \rangle = 62.047$	$\langle N \rangle = 52.040$
Number of Neutrons (per event)	$\langle N \rangle$ (80.23%)	$\langle N \rangle$ (63.68%)
Number of Charged Particles (per event)	$\langle N \rangle$ (19.77%)	$\langle N \rangle$ (30.72%)
Number of Protons (per event)	$\langle N \rangle$ (8.40%)	$\langle N \rangle$ (19.33%)
Number of Gammas	no gammas	$\langle N \rangle$ (5.60%)

# Theta

(number of bins : 60)

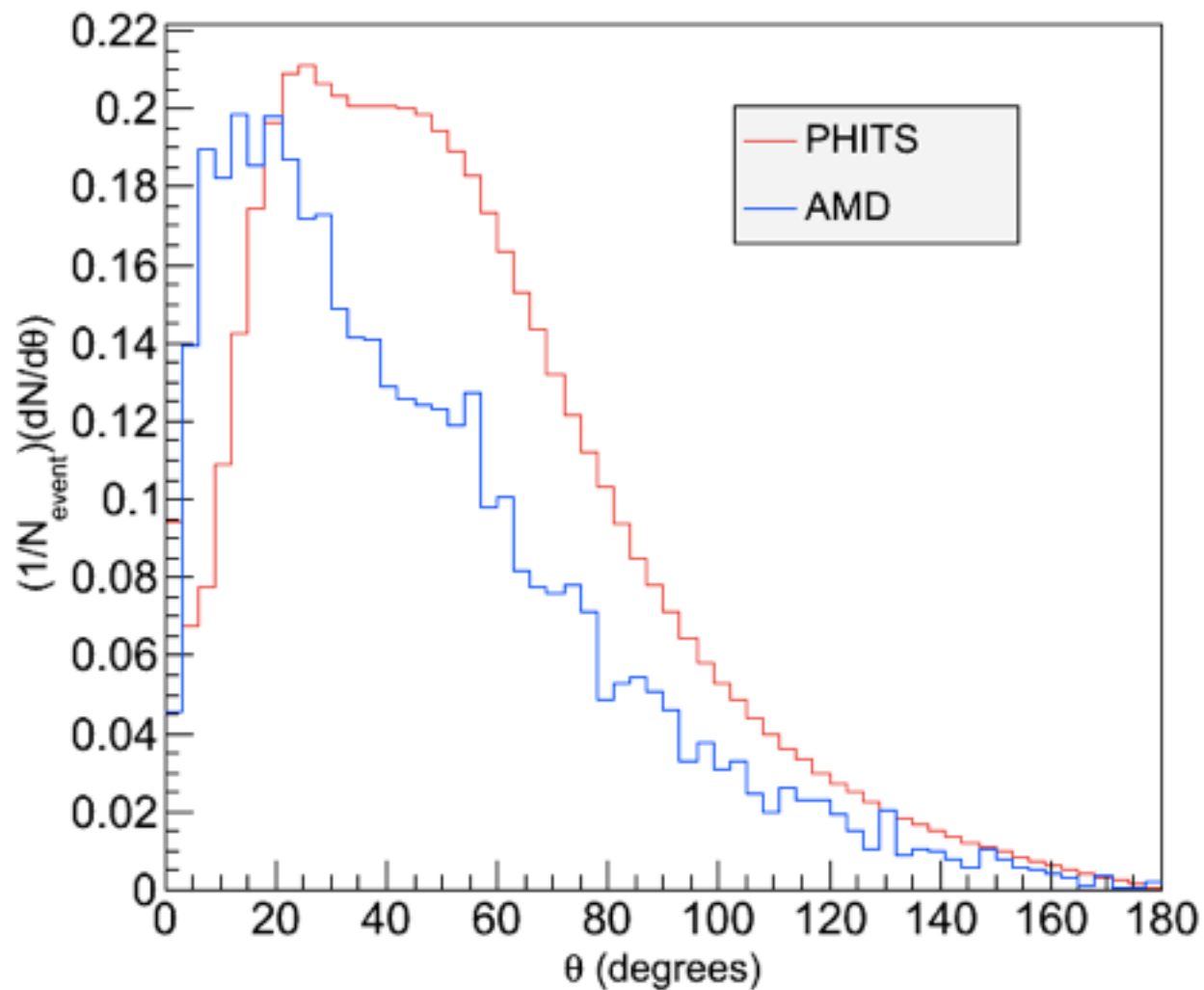
$\theta$  ( $^{132}\text{Sn} + ^{124}\text{Sn}$  (PHITS-AMD))



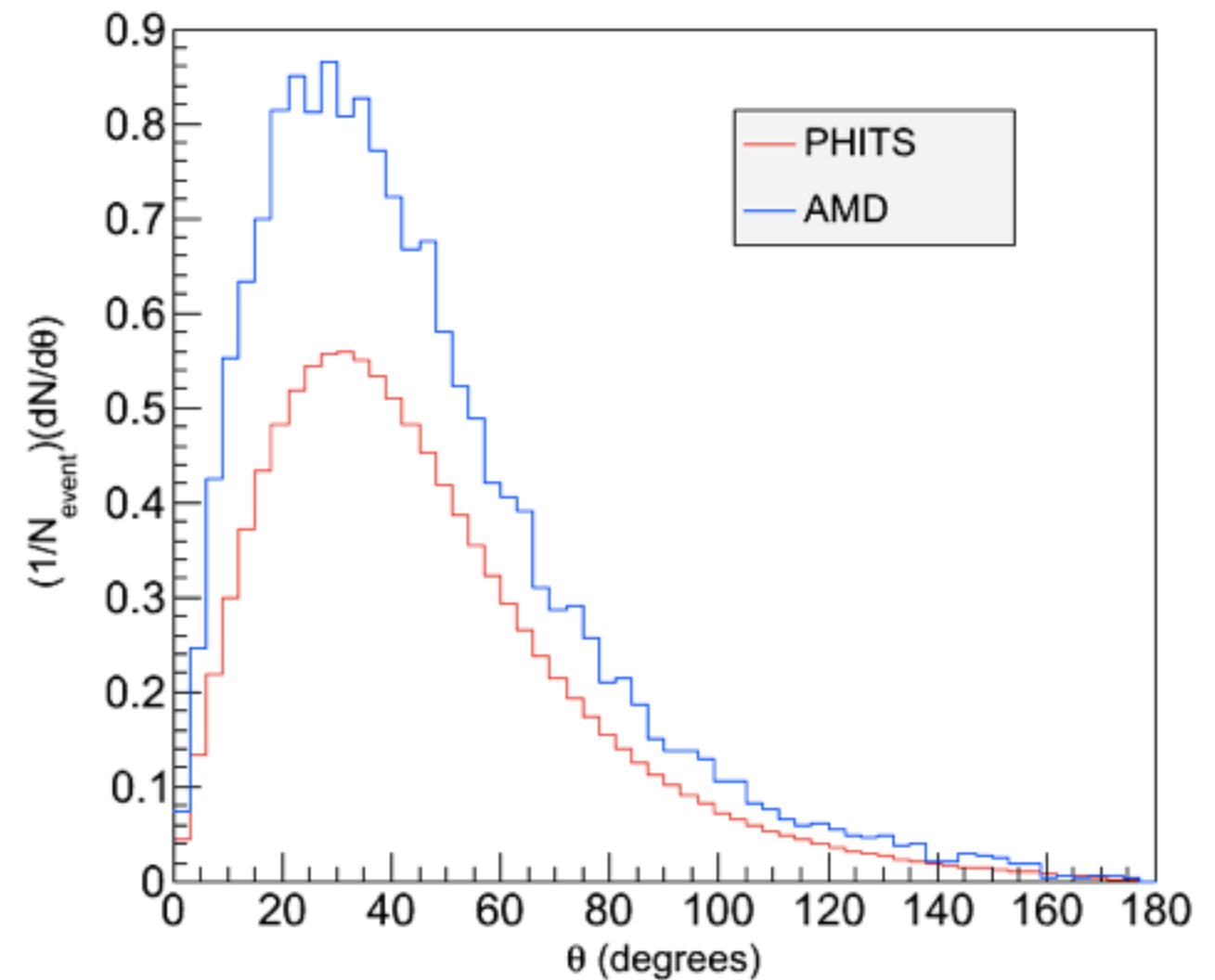
# Theta - Charged/Neutron

(number of bins : 60)

$\theta_{\text{charged}} (^{132}\text{Sn} + ^{124}\text{Sn} \text{ (PHITS-AMD)})$

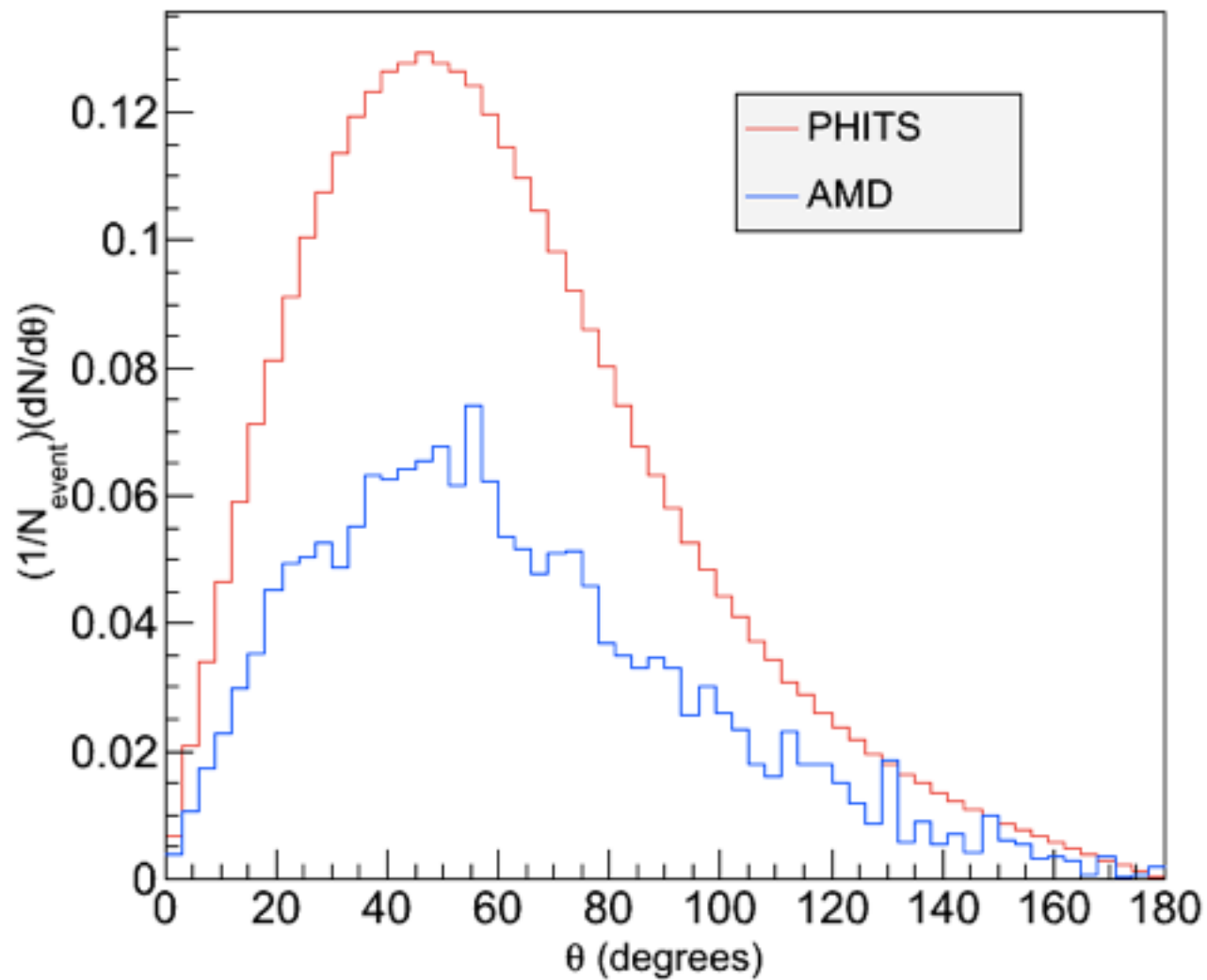


$\theta_{\text{neutron}} (^{132}\text{Sn} + ^{124}\text{Sn} \text{ (PHITS-AMD)})$

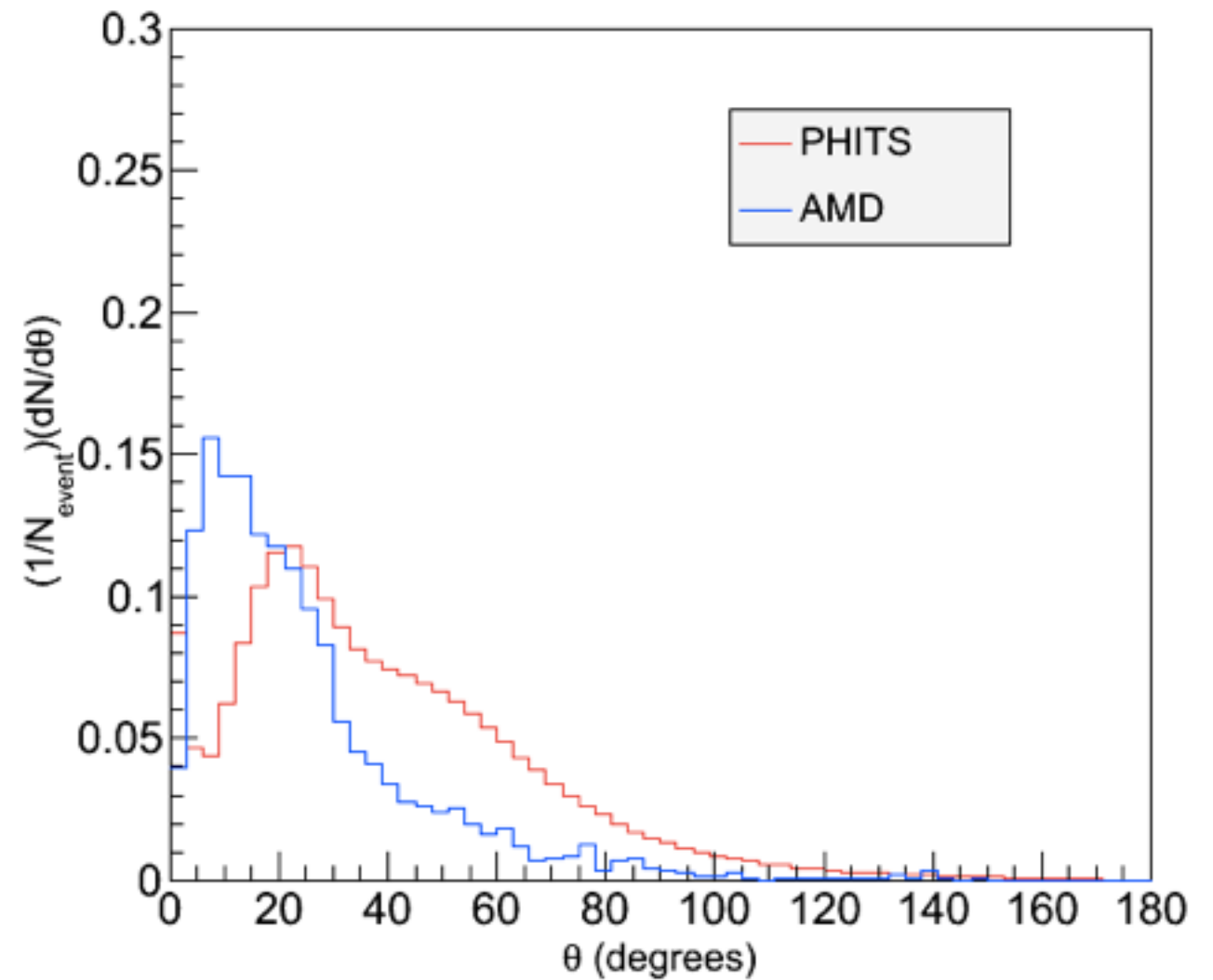


# Theta - Charged

$\theta_{\text{charged}}^{\text{proton}}$  ( $^{132}\text{Sn} + ^{124}\text{Sn}$  (PHITS-AMD))



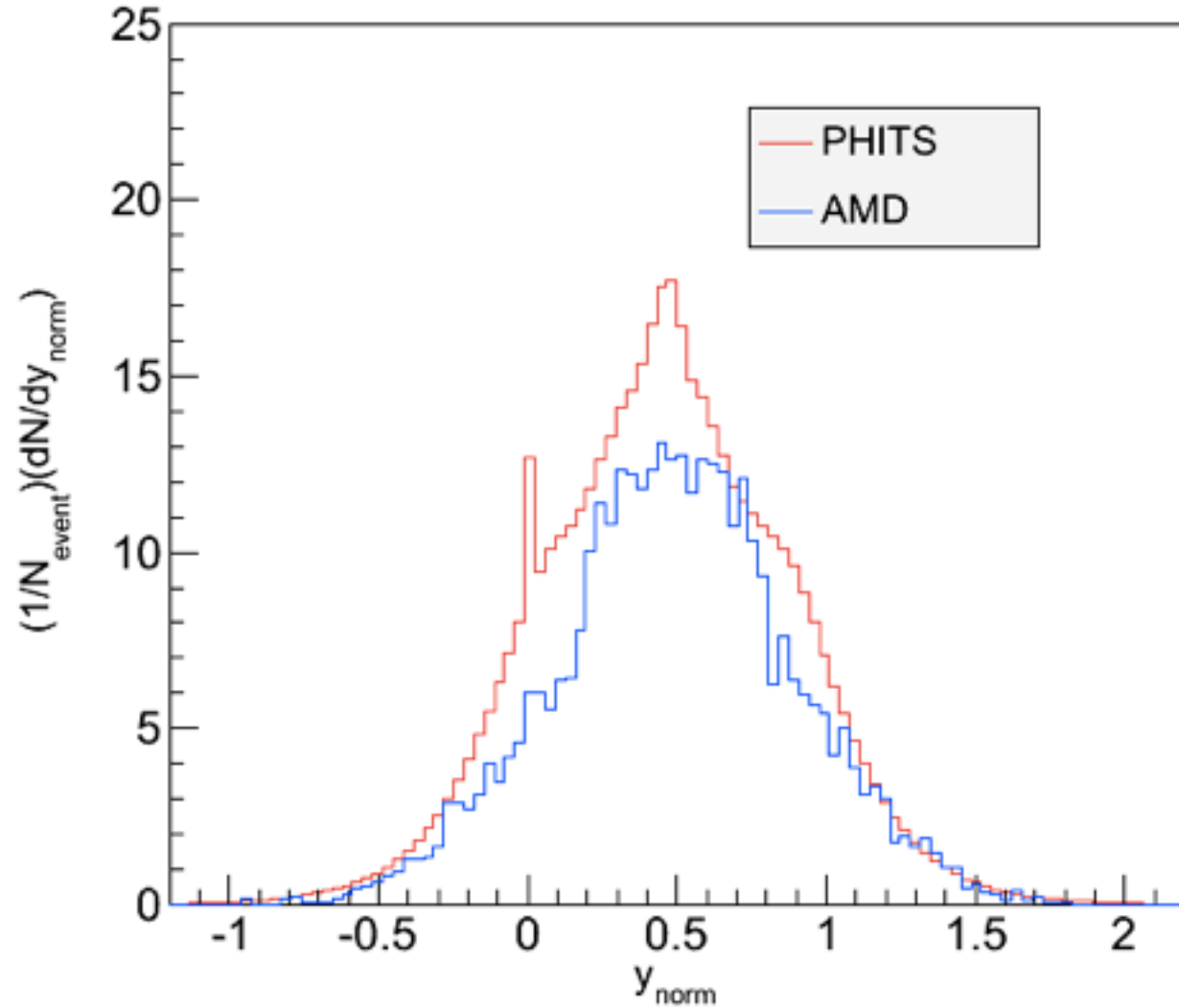
$\theta_{\text{charged}}^{\text{nonproton}}$  ( $^{132}\text{Sn} + ^{124}\text{Sn}$  (PHITS-AMD))



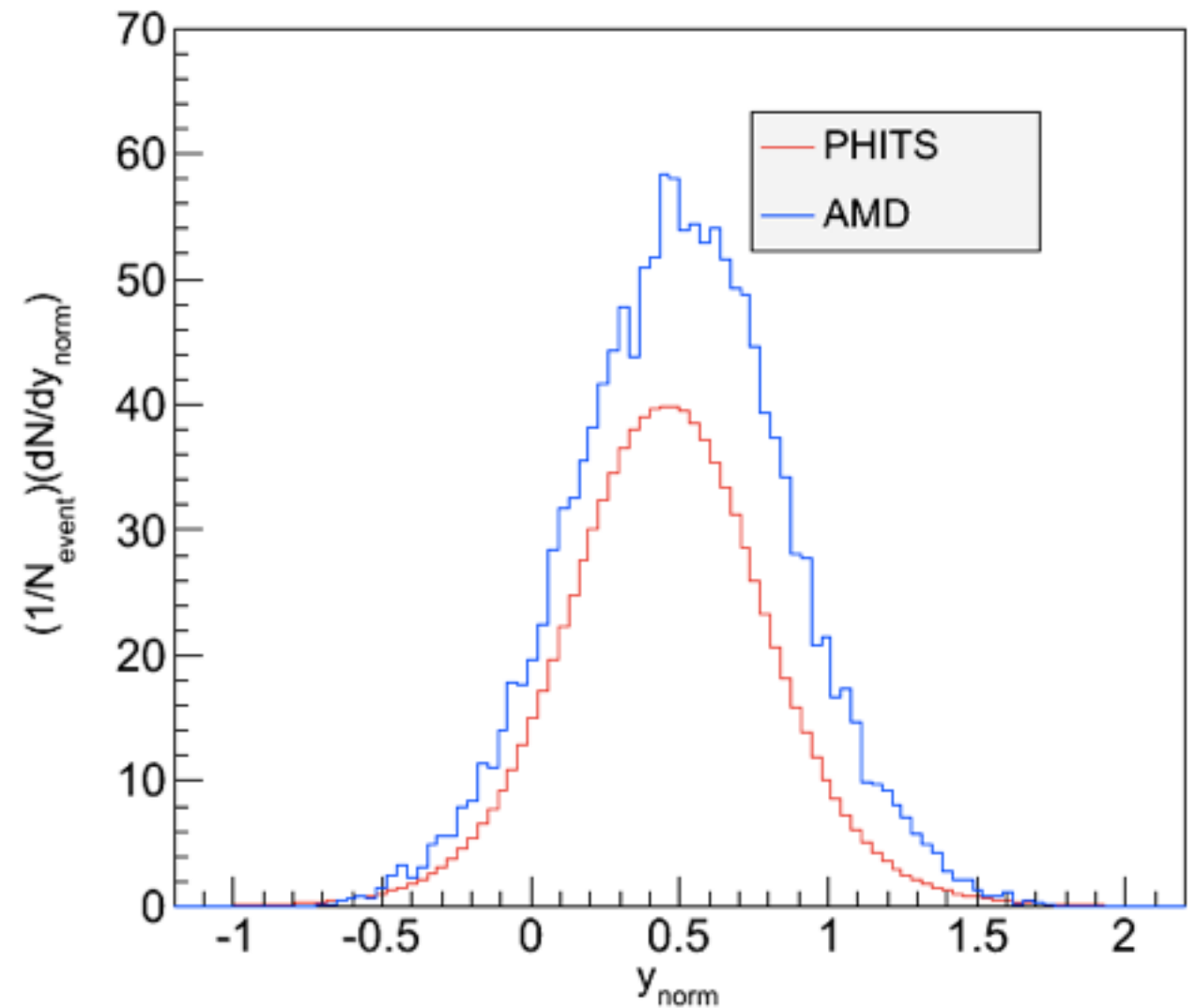
# Rapidity - AMD

(number of bins : 100)

$y_{\text{norm}}^{\text{charged}}$  ( $^{132}\text{Sn} + ^{124}\text{Sn}$  PHITS-AMD)



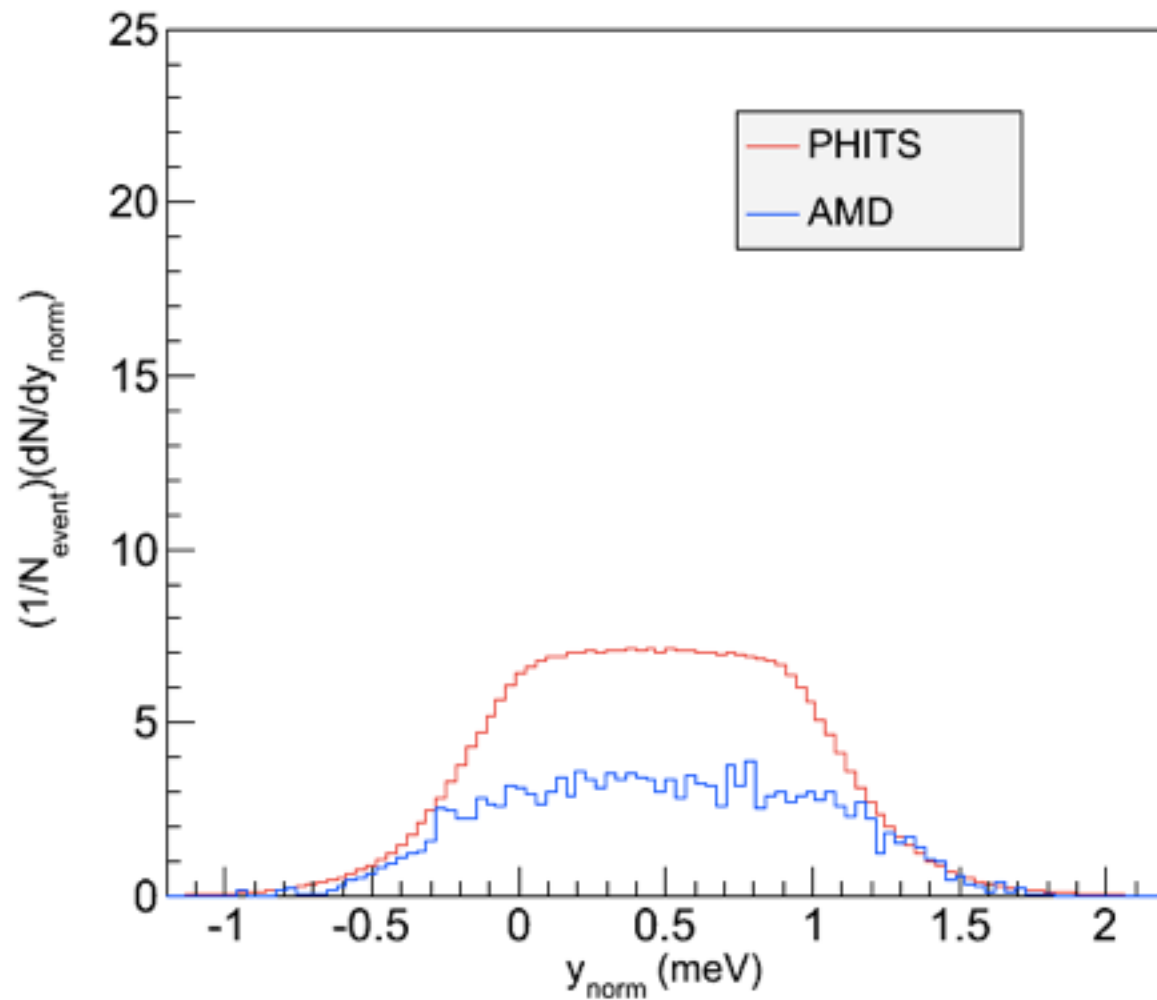
$y_{\text{norm}}^{\text{neutron}}$  ( $^{132}\text{Sn} + ^{124}\text{Sn}$  PHITS-AMD)



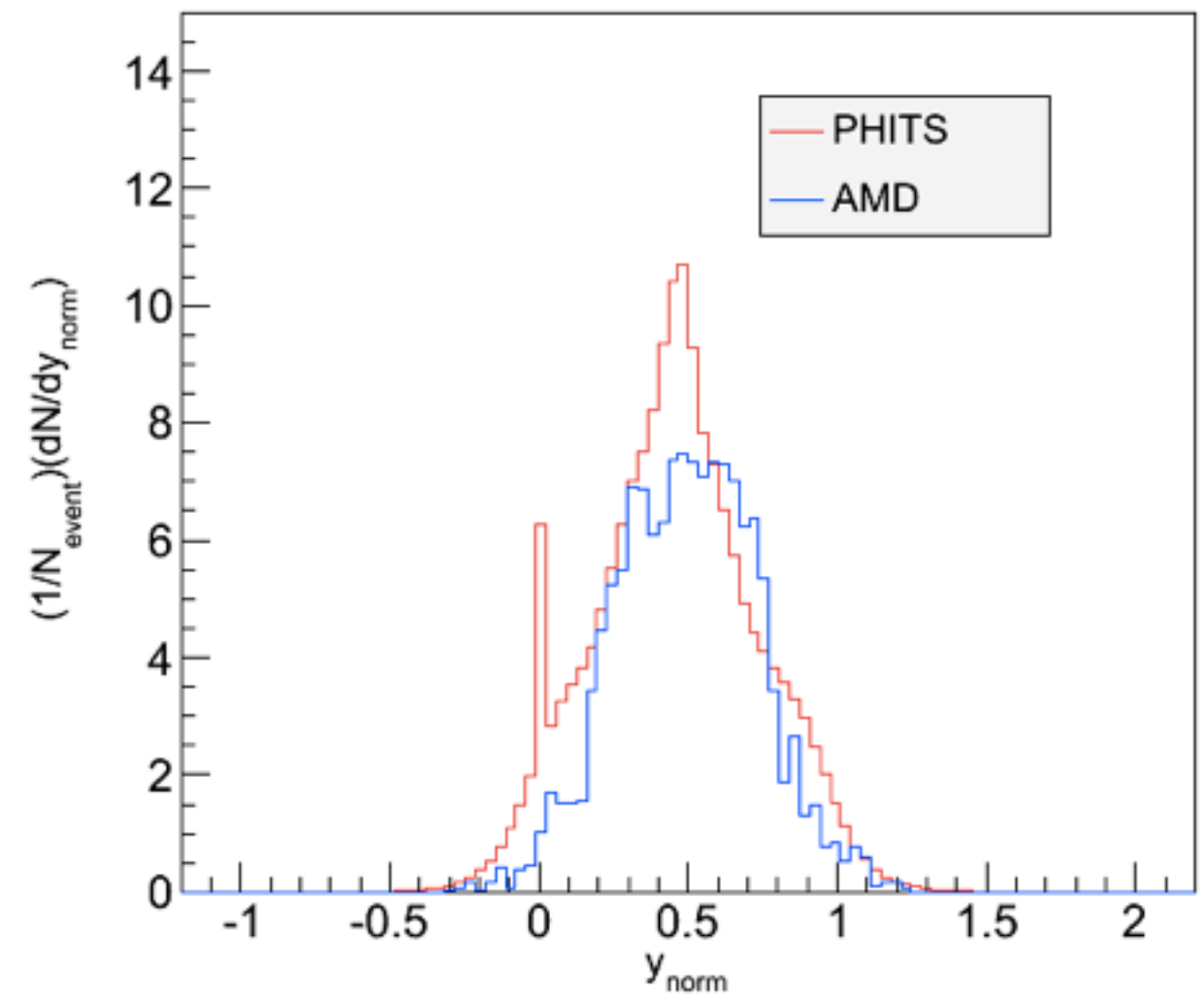
# Rapidity - Charged

(number of bins : 100)

$y_{\text{norm}}^{\text{proton}}$  ( $^{132}\text{Sn} + ^{124}\text{Sn}$  PHITS-AMD)

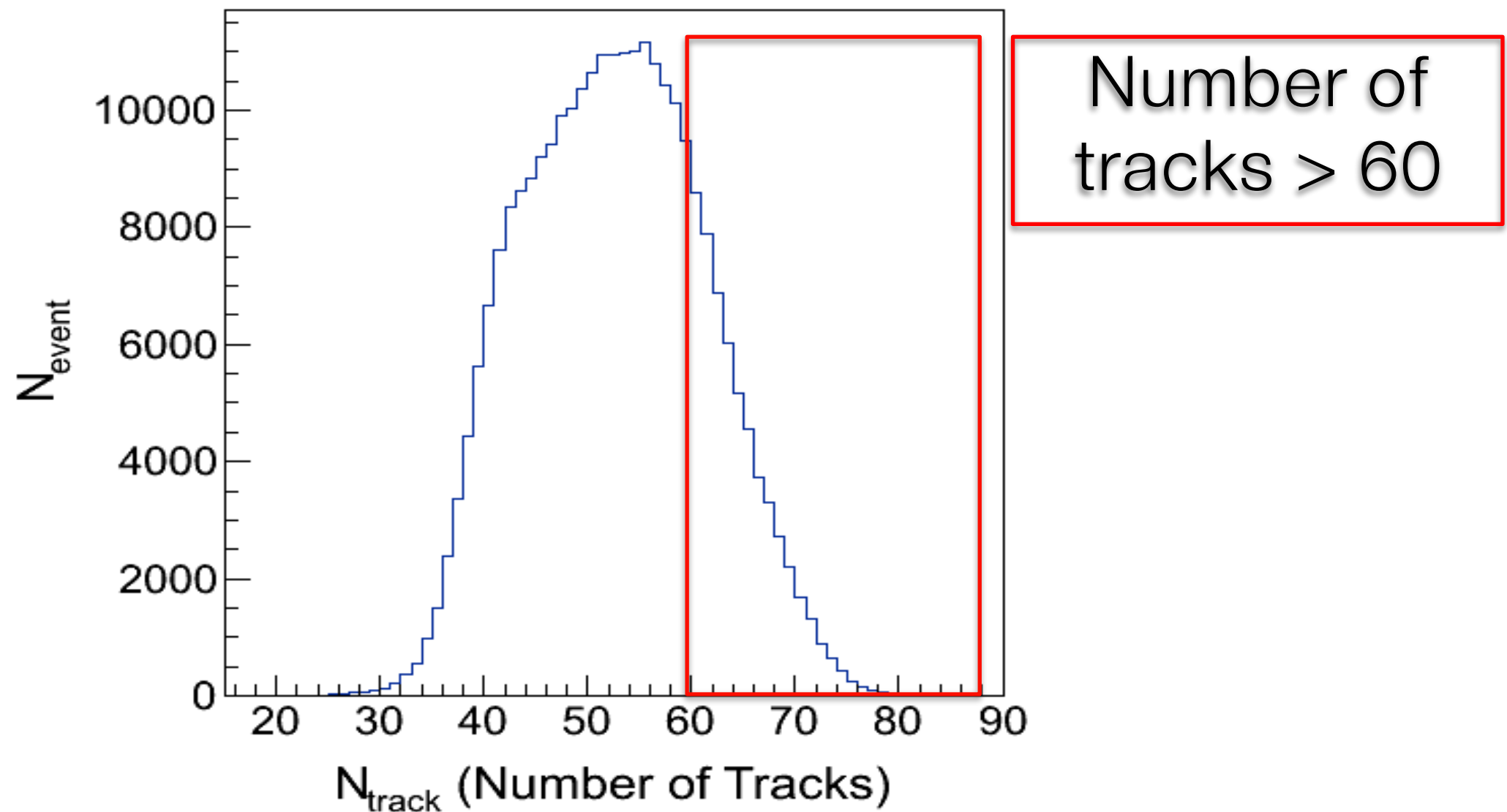


$y_{\text{norm}}^{\text{nonproton}}$  ( $^{132}\text{Sn} + ^{124}\text{Sn}$  PHITS-AMD)



# Number of Track

$N_{\text{track}}$  ( $^{132}\text{Sn} + ^{124}\text{Sn}$  - PHITS)



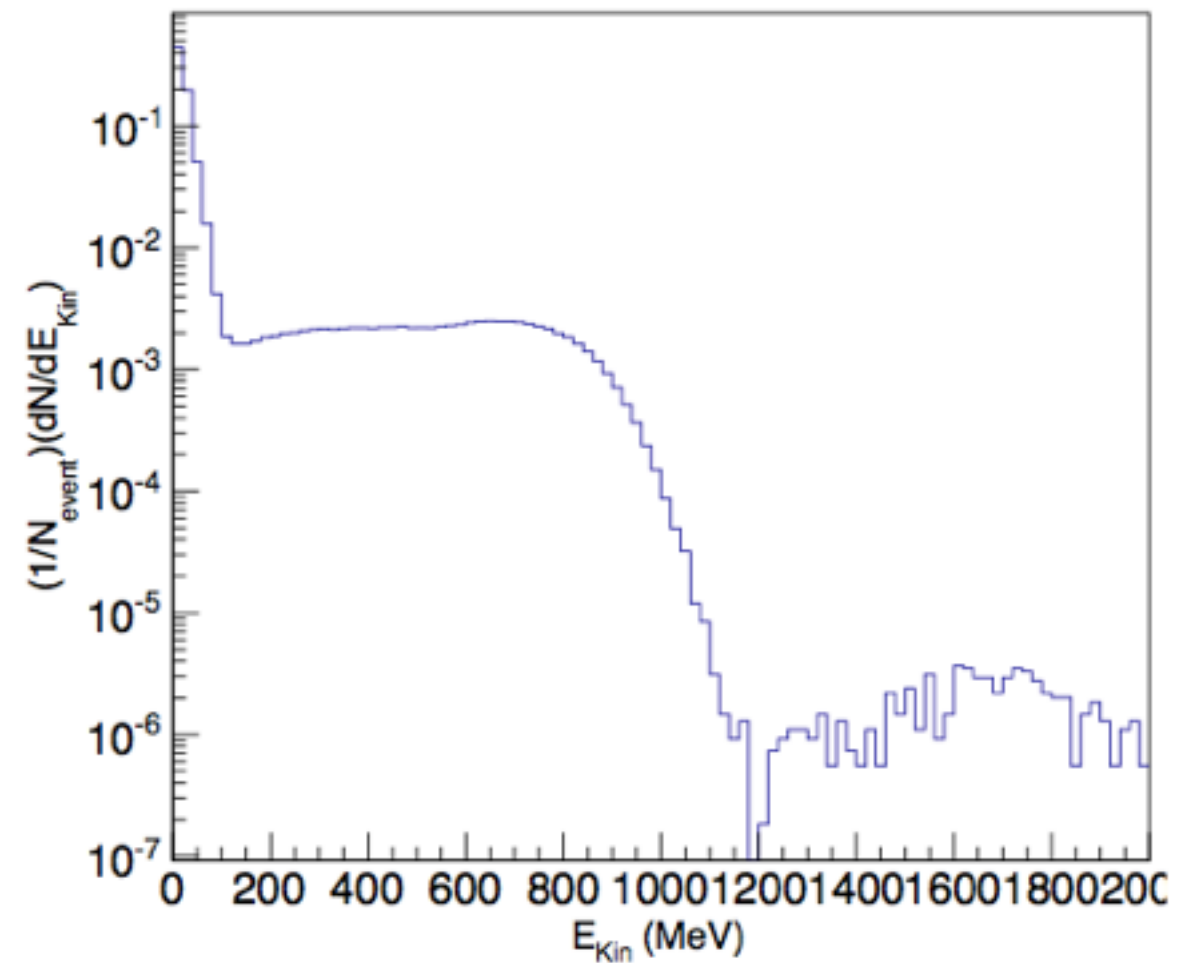
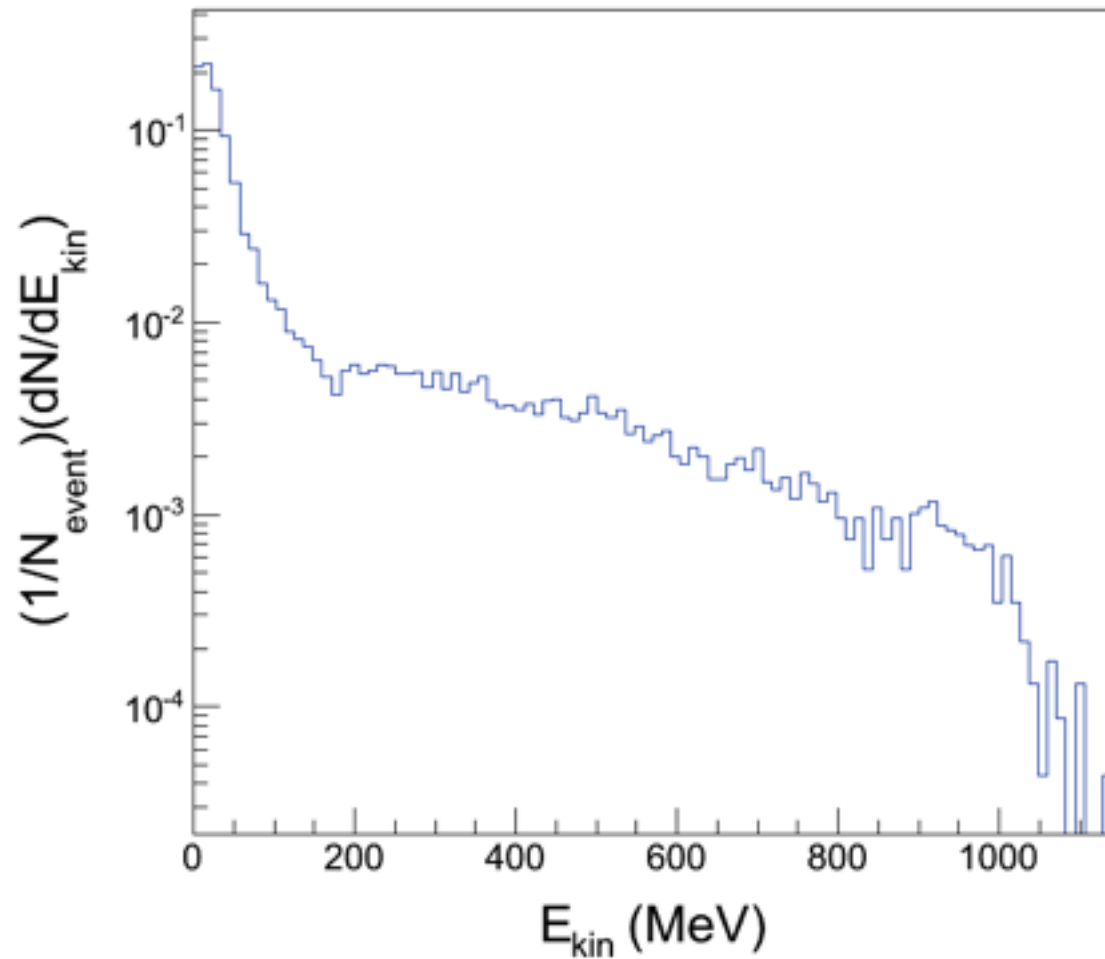


# Kinetic Energy - AMD

(number of bins : 100)

$E_{\text{kin}}^{\text{charged}}$

$E_{\text{Kin}}^{\text{charged}} (^{132}\text{Sn} + ^{124}\text{Sn} - 18.5 \text{ A MeV (PHITS))$



# Kinetic Energy - AMD

(number of bins : 100)

$E_{kin}^{neutral}$

$E_{Kin}^{neutron} (^{132}\text{Sn} + ^{124}\text{Sn} - 18.5 \text{ A MeV (PHITS)})$

