

# MC Sim study

$d(K^-, n\pi^+\pi^-)'' n''$  tail

Kentaro Inoue

August 23, 2019

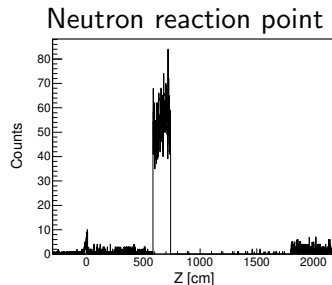
# To do

To search  $d(K^-, n\pi^+\pi^-)'' n''$  tail cause.

- neutron scattering with Iron (Ushiwaka).
  - Using  $K^- d \rightarrow \Sigma^+ \pi^- n_{spec}$  reaction.
  - Another reaction performed after.
- Reaction Point of neutron.
- $d(K^-, n\pi^+\pi^-)'' n''$  tail contribution has bug.
- $\pi^- \rightarrow \mu$  decay.

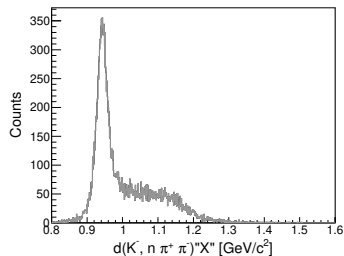
# Neutron reaction point

Reaction:  $K^- d \rightarrow \Sigma_{forward}^+ \pi^- n_{spec}$   
Decay from  $\Sigma$  was rejected.



$Z > 1800\text{cm}$  was due to backward concrete.

# $d(K^-, n\pi^+\pi^-)'' n''$ tail contribution



Bug for position condition.