## Simulation of Neutron Wall and Charged Particle Veto wall Jiashen Tang, NSCL, MSU and The Chinese University of Hong Kong

- emission ratio during Heavy Ion Collision
- Detection of neutrons primarily relies on the detection of the recoiled protons when neutrons scatter off protons in the scintillators. Thus the neutron detection efficiency is low and the neutron detectors are also sensitive to charged particles, which are detected with 100% efficiency
- distance between proton veto array to neutron wall array





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P	osition	Cut Result
NW_Energy:NW_Time {label==0}		NW_Energy:NW_Time {label==0}
99% protons are 90 removed from 90 90 90 90 90 90 removed from 90 90 90 90 90 90 90 90 90 90	h Entries 626 Mean x 32 Mean y 10.89 Std Dev x 7.818 Std Dev y 20.01	<pre>100 16% neutrons are 2<sup>90</sup> missed in neutron's Spectrum 5</pre>
Signature 0 20 20 20 20 20 20 20 20 20		$ \begin{array}{c}                                     $
	TOF (ns)	
Summary		