

## Systematic errors on kt Flux measurement

| <b>En (MeV)</b>                  | <b>0-500</b>           | <b>500-1000</b>        | <b>1000-1500</b>       | <b>1500-2000</b>       | <b>2000-2500</b>       |
|----------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| <b>DATA/MC</b>                   | <b>1.03</b>            | <b>0.98</b>            | <b>1.01</b>            | <b>1.10</b>            | <b>1.80</b>            |
| <b>Stat. Error</b>               | <b>±0.28</b>           | <b>± 0.03</b>          | <b>± 0.02</b>          | <b>± 0.06</b>          | <b>± 0.67</b>          |
| <b>Sys. Error (total)</b>        | <b>+1.43<br/>-1.00</b> | <b>+0.28<br/>-0.25</b> | <b>+0.21<br/>-0.22</b> | <b>+0.68<br/>-0.48</b> | <b>+0.86<br/>-0.58</b> |
| Sys. Error<br>(QE/non-QE)        | +0.70<br>-0.53         | +0.21<br>-0.16         | +0.10<br>-0.08         | +0.05<br>-0.04         | +0.03<br>-0.03         |
| Sys. Error<br>(Energy scale ±5%) | +1.23<br>-0.95         | +0.18<br>-0.19         | +0.17<br>-0.19         | +0.60<br>-0.47         | +0.85<br>-0.55         |
| Sys. Error<br>(others)           | +0.25<br>-0.20         | +0.04<br>-0.06         | +0.08<br>-0.07         | +0.31<br>-0.08         | +0.08<br>-0.18         |

**other sys. errors: CC/NC ratio, Flux uncertainty, Ring Counting,  
Vertex Position.**