Zenith range:  $0^{\circ}$  -  $45^{\circ}$ , Center Distance = 0m - 1000.0m, Rate = 0.125 1/sLeading bundle energy OC 6ms 01  $0.054\pm0.011$  s, rate = 0.125 1/s, bundle cut = 35.0 TeV  $10^{0}$ precut bundle energy 3inputs 6ms 01  $0.007\pm0.004$  s, rate = 0.125 1/s, bundle cut = 34.4 TeV precut bundle energy 3inputs 6ms 1conv 01  $0.015\pm0.004$  s, rate = 0.125 1/s, bundle cut = 34.7 TeV precut bundle energy 3inputs 6ms 2conv 01  $0.016\pm0.004$  s, rate = 0.125 1/s, bundle cut = 35.7 TeV precut\_bundle\_energy\_3inputs\_6ms\_2conv\_small\_01 0.006±0.003 s, rate = 0.125 1/s, bundle cut = 33.3 TeV precut\_bundle\_energy\_3inputs\_6ms\_v2\_01  $0.007\pm0.004$  s, rate = 0.125 1/s, bundle cut = 34.6 TeV precut\_bundle\_energy\_OC\_6ms\_01  $0.010\pm0.004$  s, rate = 0.125 1/s, bundle cut = 35.8 TeV precut bundle energy OC 6ms 02  $0.026\pm0.006$  s, rate = 0.125 1/s, bundle cut = 35.7 TeV precut bundle energy OC 6ms  $03.0.046\pm0.010$  s, rate = 0.125.1/s, bundle cut = 35.2 TeV precut bundle energy OC 6ms  $04\ 0.019\pm0.006$  s, rate =  $0.125\ 1/s$ , bundle cut =  $35.4\ TeV$ precut\_bundle\_energy\_leading\_energy\_rel\_OC\_6ms\_01 0.027±0.006 s, rate = 0.125 1/s, bundle cut = 35.5 TeV precut bundle energy leading energy rel OC 6ms 02 0.026±0.006 s, rate = 0.125 1/s, bundle cut = 35.9 TeV precut\_bundle\_energy\_multi\_OC\_6ms\_01  $0.019\pm0.005$  s, rate = 0.125 1/s, bundle cut = 35.2 TeV precut\_bundle\_energy\_multi\_OC\_6ms\_02 0.011±0.004 s, rate = 0.125 1/s, bundle cut = 36.9 TeV precut\_bundle\_energy\_multi\_OC\_6ms\_03  $0.009\pm0.003$  s, rate = 0.125 1/s, bundle cut = 36.9 TeV precut\_bundle\_energy\_multi\_OC\_6ms\_04  $0.009\pm0.003$  s, rate = 0.125 1/s, bundle cut = 36.8 TeV precut\_bundle\_energy\_3inputs\_6ms\_at\_surface\_01 0.007±0.003 s, rate = 0.125 1/s, bundle cut = 35.6 TeV  $10^{-2}$ 

 $10^{5}$ 

 $10^{4}$ 

 $10^{6}$ 

MCLabelsLeadingMuons bundle energy in mctree

 $10^{7}$ 

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precut surface bundle energy 3inputs 6ms 01 0.007±0.003 s, rate = 0.125 1/s, bundle cut = 124.8 TeV

precut bundle energy 3inputs 6ms at surface  $01 \ 0.007 \pm 0.003$  s, rate =  $0.125 \ 1/s$ , bundle cut =  $123.4 \ TeV$