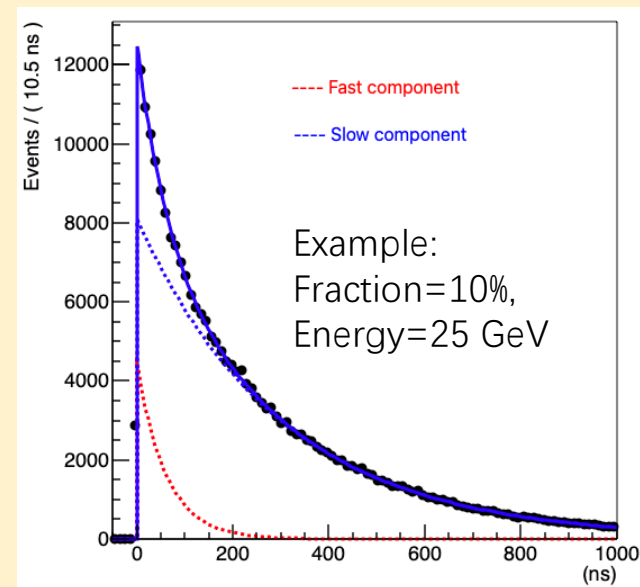
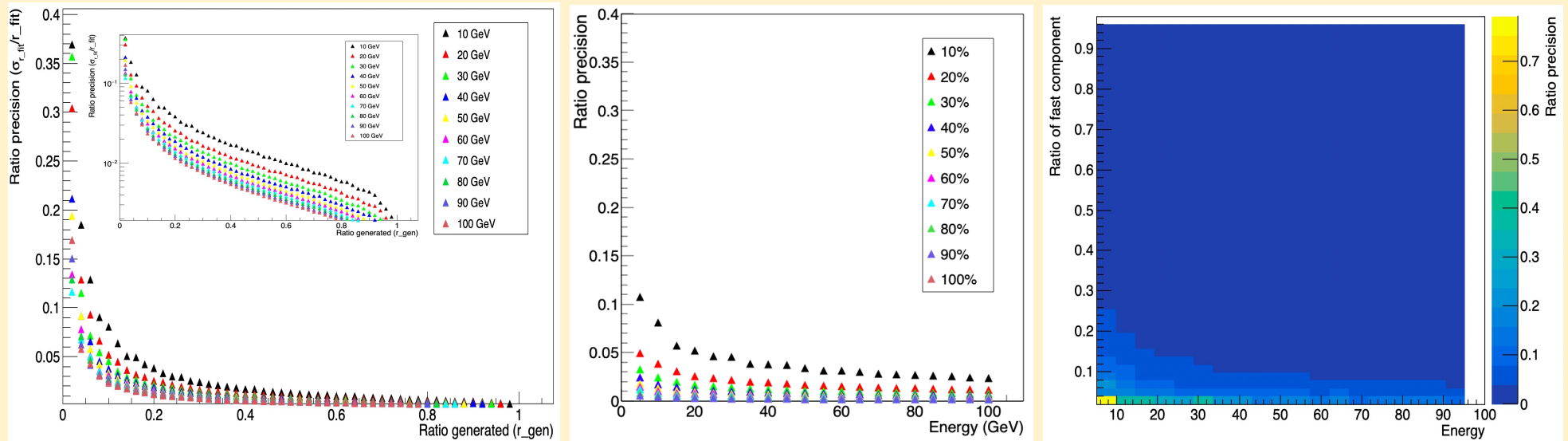


Considering the precision...

- Is it possible to measure the signal with 10000 PE/GeV?
 - Toy settings:
 - Time distribution:
 - Fast component: $\tau = 60 \text{ ns}$
 - Slow component: $\tau = 300 \text{ ns}$
 - Time resolution: 5 ns
 - Energy range: 5-100 GeV
 - Fraction of the fast component: 2%-98%



The toy result



- With the assumption of 10000 PE/GeV, when having at 10% of fast component, the precision is less than 10% in both the decay time constants and the fraction of fast component.