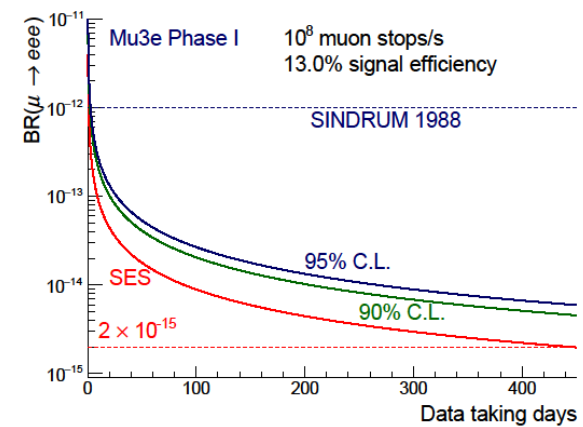
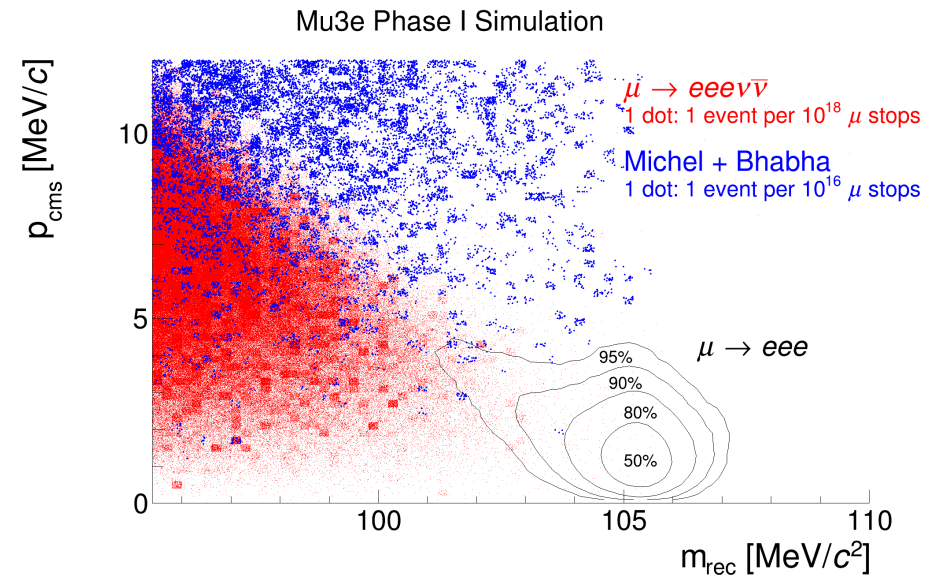


# Mu3e Analysis Activities



- Geant4 based simulation and reconstruction chain running
- Full analysis performed on simulated data: Sensitivity study for  $\mu^+ \rightarrow e^+e^-e^+$
- Studies for other channels such as  $\mu^+ \rightarrow e^+X$  and  $e^+e^-$  resonance searches ongoing



# Mu3e Online Analysis

- Mu3e has a streaming DAQ and a GPU-based filter farm
- Development and testing of on-line filter algorithms
- Verification of DAQ functionality (Bit-for-bit simulation)
- Preparation of real-time calibrations
- Histogram-based analysis on GPUs ( $\mu^+ \rightarrow e^+X$ )

