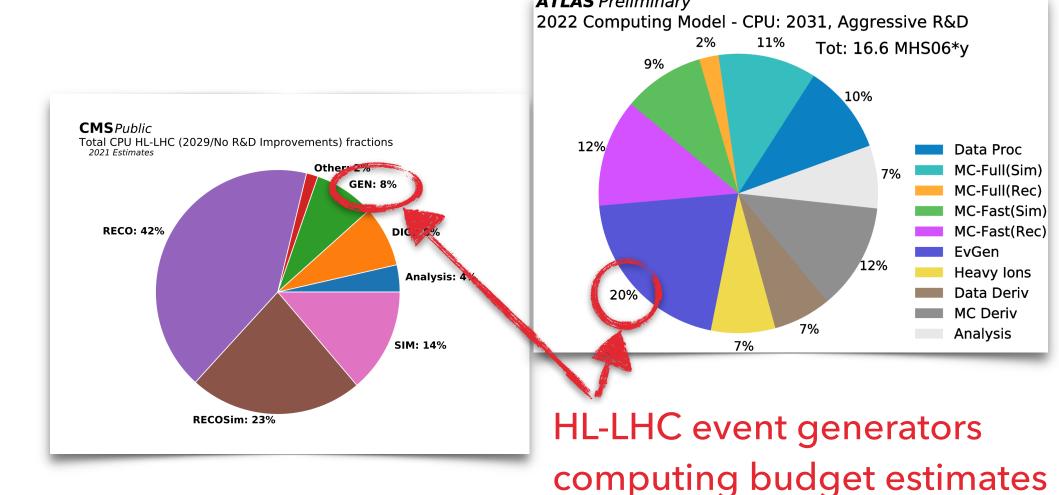
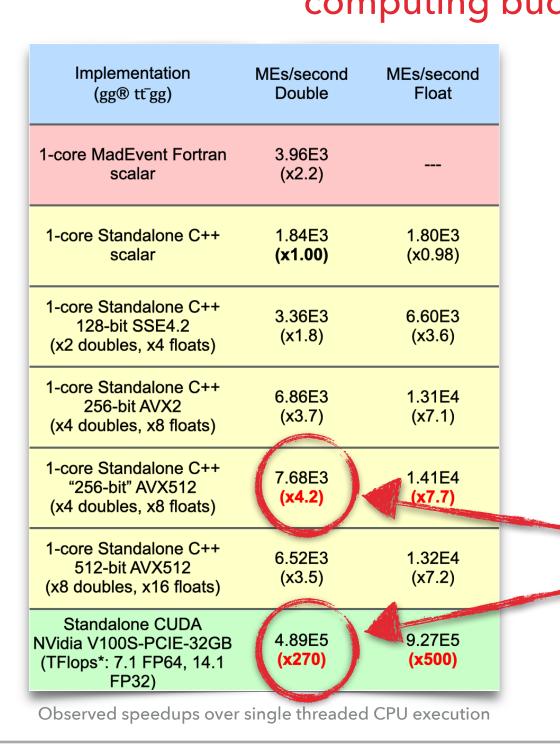
POWER CONSUMPTION OF THE MADGRAPH5 EVENT GENERATOR ON MODERN HARDWARE

- Madgraph5 (MG5) is an important event generator in the event simulation chain for LHC experiments
 - Used by CMS, ATLAS, LHCb, ...
- Current project to use MG5 on GPUs and vectorised CPUs
 - Development by CERN/IT & University Louvain (BE)
- ▶ Plan to measure workflow power consumption (W/event)
 - Compare "classical CPUs" to modern hardware
 - Measure with IT computer center infrastructure and tools
 - Envisage collaboration with Hepix benchmarking WG





Realistic
Madgraph5
CPU &
GPU
speedups