



## 1. Motivation

**Detailed simulation** of the interaction between the traversing particles and the LHCb active volumes is the major consumer of CPU resources. During the LHC Run2, the LHCb experiment has spent **more than 90% of the pledged CPU time** to simulate events of interest. Matching the upcoming and future demand for simulated samples means that the development of **faster simulation options** is critical.

## 2. Fast simulation VS. flash simulation

