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EvtGen –on its first steps towards thread safety

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The EvtGen generator, an essential tool for the simulation of heavy-flavour hadron decays, has recently gone through a modernisation campaign aiming to implement thread safety. A first iteration of this concluded with an adaptation of the core software, where we identified possibilities for future developments to further exploit the capabilities of multi-threaded processing. However, the current main limitations stem from external dependencies that are not yet thread safe, such as the simulation of final state radiation (FSR). Along with thread safety, we have recently implemented alternatives for FSR simulation which open new possibilities for systematic studies.

Primary authors: Dr ABUDINÉN, Fernando (University of Warwick (GB)); BACK, John James (University of Warwick (GB)); KREPS, Michal (University of Warwick (GB)); LATHAM, Thomas (University of Warwick (GB))

Presenter: Dr ABUDINÉN, Fernando (University of Warwick (GB))

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