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Inspiring students through masterclasses

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Masterclasses are an excellent platform to inspire, motivate and educate students about High Energy Physics (HEP). They typically entail lectures on a chosen topic followed by a hands-on session where students get to experience being a researcher for the day. A number of HEP masterclasses have been developed, including the International Particle Physics Masterclasses, supported by IPPOG. These provide a programme structure for students to analyse real collision data collected by the four main LHC experiments (ATLAS, CMS, ALICE, and LHCb) and to interact with other students from all over the world via a video conference. This talk will show examples of the exercises students perform, including a measurement of the D^0 lifetime using LHCb data. The practicalities of organising masterclass events will also be presented, together with a discussion of how to adjust the masterclass programs to suit your specific needs.

Primary author: LENEY, Katharine (University College London (UK))

Presenter: LENEY, Katharine (University College London (UK))

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