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From Quark to Jet: A Beautiful Journey

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The beauty, or bottom, quark is an extremely powerful object in high energy physics. Distinctive characteristics of the decay of the quark has motivated the design high-energy physics detectors in the quest to reconstruct the quark. Each component of the detector is used as a tool to identify these characteristics and present unique challenges that are solved with a combination of engineering, physics, and computing. These two lectures will explore the tools used and the different physics and computing environments they are used in, and the important interplay between the two environments and limitations they set on each will be considered. When all components are reassembled, the quark is described as a jet.

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