

1st ICTP-Trieste/ICTP-SAIFR School on Particle Physics

Experimental Elements for Theorists: A Roadmap to the Future

Problem set 1

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The Tevatron was a proton-anti-proton collider but the LHC is a proton-proton collider. Why did the Tevatron use anti-protons? What would the impact of using anti-protons be on the LHC for a) Z production, b) $t\bar{t}$ production, c) Z' ($m=3$ TeV) production?