

Special Report

CDF Report 327 GeV Anomaly in 4l Channel

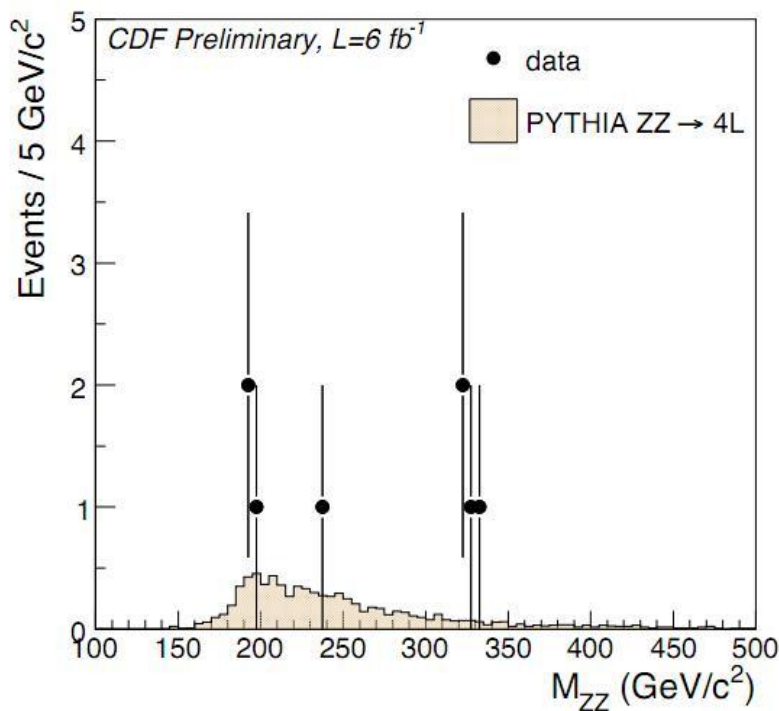
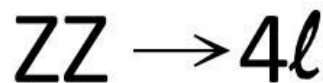
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Abstract

In a presentation at EPS-HEP today CFD will show a surprising cluster of 4 events in the 4 lepton “golden channel” consistent with a particle at 327GeV.

Key Words: CDF, ESP-HEPS, 2011.

There are four other events also consistent with decays via two Z bosons but at lower masses. The background expectation was 0.01 events for events over 300 GeV so the four 327GeV events are an exceptional find in 6/fb of data. The others are consistent with the background.



High mass:

eeee

eeμμ

μμμμ

μμμμ

Other excesses at these matters have been seen elsewhere, but has D0, ATLAS or CMS seen anything simialr in the 4 lepton channel? Hopefully we will find out in the next two days.

See [The Reference Frame](#) for further details.

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