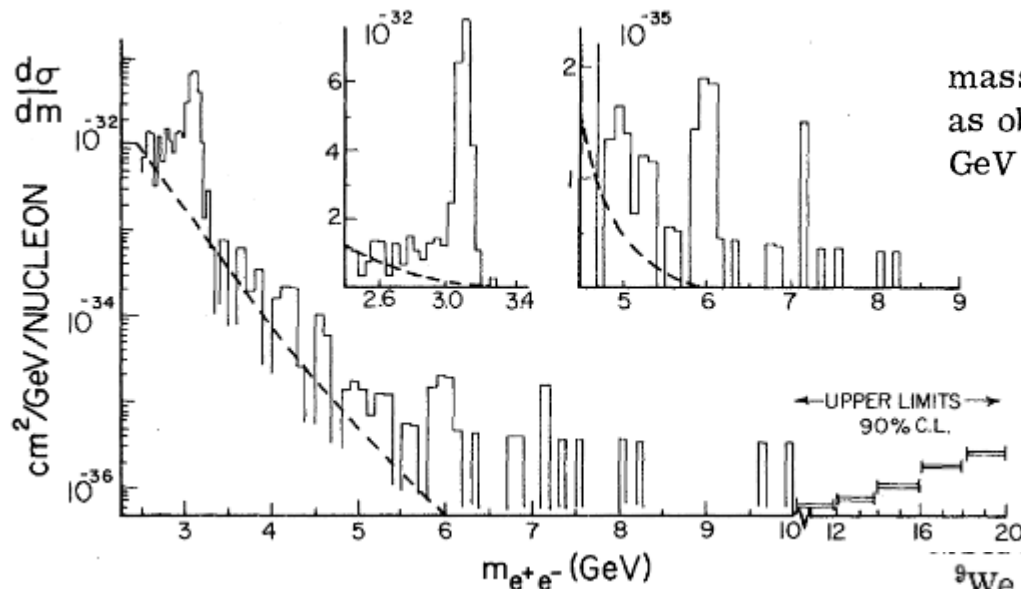


History 1



<http://journals.aps.org/prl/pdf/10.1103/PhysRevLett.36.1236>

Discovery of the “Oops Leon”



mass range 5.0 to 10.0 GeV. Clusters of events as observed occurring anywhere from 5.5 to 10.0 GeV appeared less than 2% of the time.⁸ Thus

Global significance same as ATLAS diphoton

⁸We suggest the name Υ (upsilon) be given either to the resonance at 6 GeV if confirmed or to the onset of high-mass dilepton physics.

We report preliminary results on the production of electron-positron pairs in the mass range 2.5 to 20 GeV in 400-GeV p -Be interactions. 27 high-mass events are observed in the mass range 5.5–10.0 GeV corresponding to $\sigma = (1.2 \pm 0.5) \times 10^{-35}$ cm² per nucleon. Clustering of 12 of these events between 5.8 and 6.2 GeV suggests that the data contain a new resonance at 6 GeV.

History 2



<http://www.slac.stanford.edu/pubs/slacpubs/3250/slac-pub-3380.pdf>

Submitted to the XXII International Conference on High Energy Physics,
Leipzig, E. Germany, July 19-25, 1984.

$$Y \rightarrow \gamma X$$

Neither this “Higgs” nor country exist today

above (see Fig. 2b) now yields a significance of 4.2 standard deviations for the signal. The signal-parameters become

$$E_\gamma = (1072 \pm 8 \pm 21) \text{ MeV}$$

$$M = (8319 \pm 10 \pm 24) \text{ MeV}$$

$$\text{Counts} = 87.1 \pm 20.5$$

$$\chi^2 = 24.8 \text{ for 32 degrees of freedom,}$$

