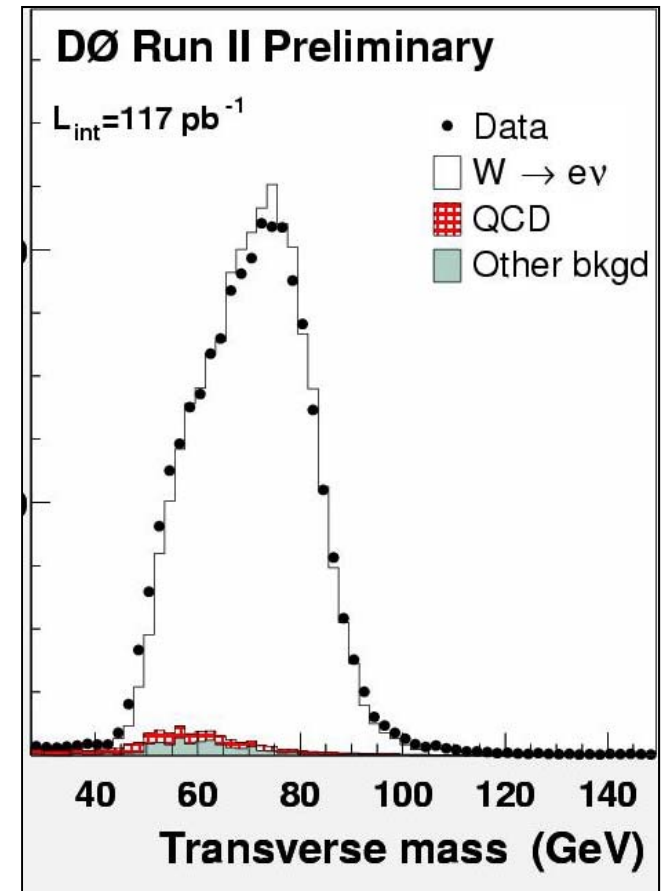


# W transverse mass: nice properties

- In every event  $m_T < m_W$  if the W is on shell
- There are events in which  $m_T$  can **saturate** the bound on  $m_W$ .

motivate  $m_T$  in W discovery and mass measurements.



But where did these properties come from?