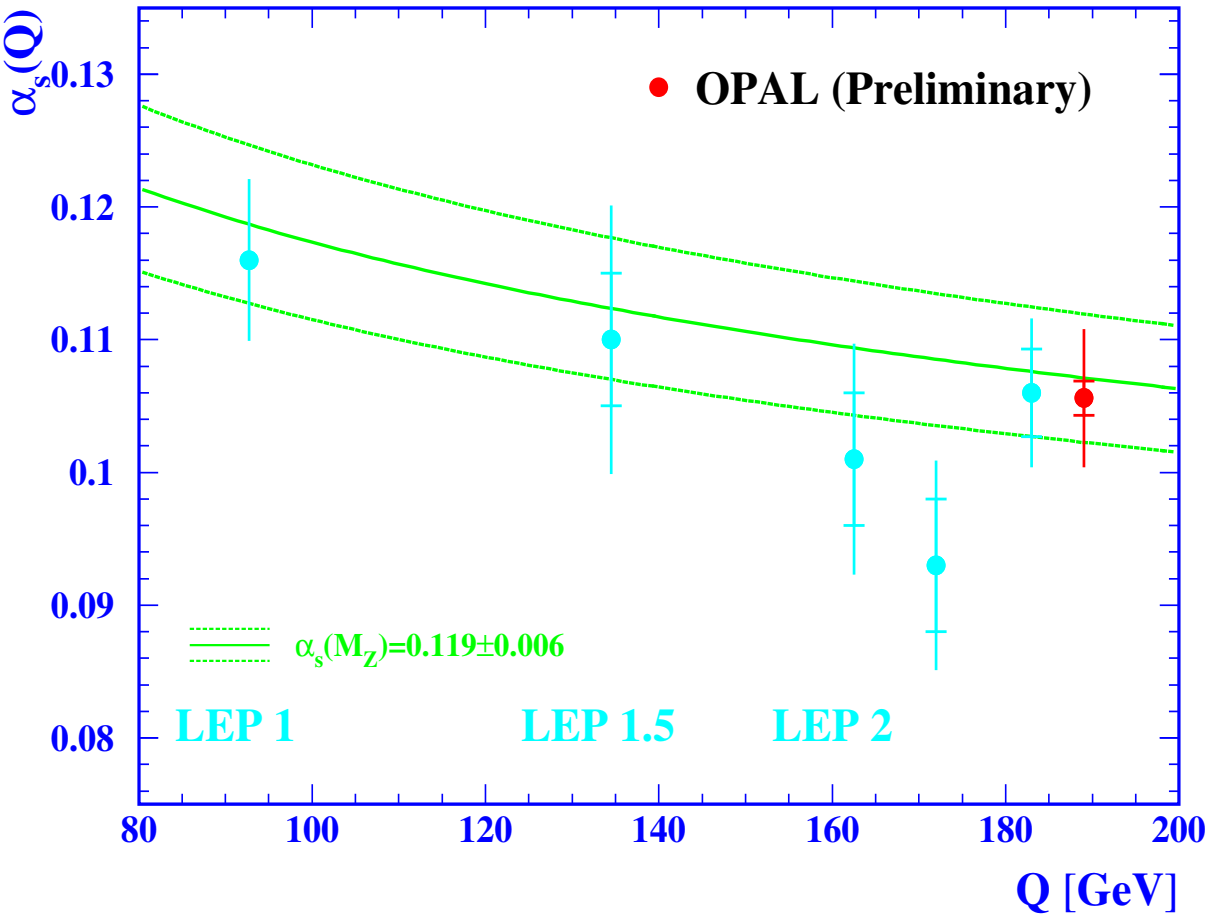
# Determination of $\alpha_s$(189 GeV)

*Fitting 5 event shapes to QCD O($\alpha_s^2$)+NLLA calculations:*

$$\alpha_s(189\,\mathrm{GeV}) = 0.106 \pm 0.001(stat) \pm 0.005(syst)$$




*Breakdown of the systematic uncertainty:*

- *experimental : 0.00257*
- *hadronization : 0.00074*
- *theoretical : 0.00420*

✹ ***Large correlation to lower cm energies***