Conclusion

- Δm_{d} analyses :
  - New techniques are developed :
    - $\ell\pi^* - \mathrm{Q}_{jet}$ from DELPHI
    - $\mathrm{Q}_{jet} - \mathrm{Q}_{jet}$ from ALEPH
  - Δm_{d} is now precisely measured :

$$\Delta m_{\mathrm{d}} = .464 \pm .018 \text{ ps}^{-1}$$

- Δm_{s} analyses :
  - Improvement since last summer conferences :
    - ALEPH $\mathrm{D_s}h$ analysis finalized
    - New DELPHI $\mathrm{D_s}\ell$ analysis with :
      - Improved tracking $\rightarrow$ higher efficiency
      - Combined tagging
    - Overall sensitivity : 11.1 ps^{-1} (was 10.2 ps^{-1})
    - New limit :

$$\Delta m_{\mathrm{s}} > 8.4 \text{ ps}^{-1} \text{ at } 95\% \text{ CL}$$

(was 9.2 ps^{-1})

- A LEP (and "World") Working Group has been set up
  - $\rightarrow$ combination of all Δm_{d} analyses taking into account correlated uncertainties
  - $\rightarrow$ Agreement on the amplitude method to combine the Δm_{s} results and process of combination started
- Now constraining the Unitarity Triangle but $f_{B_d}\sqrt{B_{B_d}}$ theoretical uncertainty ($\pm$40 MeV) should decrease in order to benefit from the accurate measurement of Δm_{d}