



ID de Contribution: 197

Type: Ordinary

Various $|V_{cs}|$ measurements in Ds^+ , D^0 decays and LU test in $D \rightarrow \pi l \nu$ decays

dimanche 11 mars 2018 19:00 (15 minutes)

The BESIII experiment at the Beijing Electron Positron Collider (BepcII) accumulated the world's largest e^+e^- collision samples at 3.773 and 4.178 GeV. From analyses of $D^{0(+)} \rightarrow K l^+ \nu$ and $Ds^+ \rightarrow l^+ \nu$ decays, we determine the CKM matrix element $|V_{cs}|$, the form factors of $D^{0(+)}$ semi-leptonic decays $f_{K^{0(+)}}$, the Ds^+ decay constants $f_{D_s^{0(+)}}$. The measured $|V_{cs}|$ is important to test the unitarity of the CKM matrix, while $f_{K^{0(+)}}$ and $f_{D_s^{0(+)}}$ to calibrate the LQCD calculations. We also report the Lepton Universality test in $D \rightarrow \pi l \nu$ decays.

Summary

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Classification de Session: Sunday Afternoon: Heavy Flavours (cont)