

Search for the process $e^+e^- \rightarrow D^*(2007)$ with the CMD-3 detector

Thursday, 18 August 2022 20:20 (25 minutes)

A search for the process $e^+e^- \rightarrow D^{*0}(2007)$ has been performed with the CMD-3 detector at the VEPP-2000 e^+e^- -collider. Two main decay modes $D^0\pi^0$ and $D^0\gamma$ with $D^0 \rightarrow K^+\pi^-\pi^+\pi^-$ and $D^0 \rightarrow K^+\pi^-\pi^0$ are used in this analysis. Using an integrated luminosity of 25.5 nb^{-1} collected at the center-of-mass energy $E_{c.m.} = 2006.62 \text{ MeV}$ we preliminary get an upper limit for $\mathcal{B}(D^{*0} \rightarrow e^+e^-) < 6 \times 10^{-7}$ at 90% C.L.

Category

Primary author: SHEMYAKIN, Dmitry (B)

Presenter: SHEMYAKIN, Dmitry (B)

Session Classification: Session 3