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Studies of the $\psi(2S)$ and $\psi(3770)$ at KEDR

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We present a measurement of the main parameters of the $\psi(2S)$ and $\psi(3770)$ resonances, which has been performed with the KEDR detector at the VEPP-4M e^+e^- collider.

Fitting the energy dependence of the multihadron cross section in the vicinity of the $\psi(2S)$ we obtained the mass value and the product of the electron partial width by the branching fraction into hadrons. These results are significantly precisely than any of the previous experiments.

We present a measurement of the mass, total width and electron partial width of the $\psi(3770)$ meson. Interference of resonant and nonresonant $D\bar{D}$ production essential in the near-threshold region has been taken into account. We got two possible solutions for the $\psi(3770)$ electron partial width and the radiatively corrected nonresonant $D\bar{D}$ cross section at the mass of $\psi(3770)$.

Financial Support Justification for Early-Stage Researchers

I would be grateful to receive any financial support due to the significant costs required for the trip to Melbourne from Novosibirsk, if it is possible, of course.

Summary

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