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## **High Energy Physics - Experiment**

# A study of charged kappa in \$J/psi \to K^ {\pm} K\_s \pi^{\mp} \pi^0\$

M. Ablikim, for the BES collaboration

(Submitted on 4 Feb 2010)

Based on \$58 \times 10^6 \$ \$J/\psi\$ events collected by BESII, the decay \$J/psi \to K^{\pm} K\_s \pi^{\mp} \pi^0\$ is studied. In the invariant mass spectrum recoiling against the charged \$K^\*(892)^{\pm}\$, the charged \$\kappa\$ particle is found as a low mass enhancement. If a Breit-Wigner function of constant width is used to parameterize the kappa, its pole locates at \$(849 \pm 77 ^{+18}\_{-14}) -i (256 \pm 40 ^ +46\_{-22})\$ MeV/\$c^2\$. Also in this channel, the decay \$J\psi \to K^\* (892)^+ K^\*(892)^-\$ is observed for the first time. Its branching ratio is \$(1.00 \pm 0.19 ^{+0.11} {-0.32}) \times 10^{-3}\$.

Comments: 19 pages, 7 figures

High Energy Physics - Experiment (hep-ex) Subjects:

Cite as: arXiv:1002.0893v1 [hep-ex]

## **Submission history**

From: Wu Ning [view email]

[v1] Thu, 4 Feb 2010 04:05:26 GMT (100kb)

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