BES Analysis Topics

F. A. Harris and X. C. Lou

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D_S Physics

$B(D_s \to K^{\pm}X)$
Authors: Zhang Chun
Refs:

$B(D_s \to \overline{K}^{*}X, K^{*}X)$
Authors: R. Gang, J.M. Ma, C. Zhang
Refs: Zhang Changchun, Zhang Dahua, Rusty
Status: Hadron99. Paper draft available.

D Physics

D^{*+} Branching Fractions
Authors: Zhao Haiwen, Oliver Bardon, Pan Lingjun, Steve Olsen, Yan Wuguang
Refs: Bill Dunwoodie, Li Xiaonan, Gu Jianhui
Status: Thesis (Dr. Pan Lingjun) written.

$B(D \to \mu X)$ (semileptonic)
Authors: Rong Gang, Xu Chuncheng, Yan Wugang
Refs: Gu Jianhui, Zhang Dahua, Lou Xinchou

$B(D \to eX)$ and electron spectrum
Authors: Xinchou Lou, Rong Gang, Zhao Jiawei
Refs: Gu Jianhui, Zhang Dahua, Andy Lankford
Status: BR Analysis note written.

$B(D \to Ke\nu)$ and $B(D \to \pi e\nu)$
Authors: Rong Gang, Zhao Jiawei, Heng Yuekun
Refs:
Status:

$B(D \to K^{*0}X)$
Authors: Rong Gang, Haimin Liu, Chunhui Luo
Refs: Rusty Malchow, Zhang Dahua, Cheng Baoshen
Status: ICHEP98. Paper draft available.

$B(D^0 \to K^0\pi^+\pi^-, K^0K^+K^-, K^0\phi)$
Authors: Rong Gang, He Kanglin, Jiawei Zhao
Refs: Cheng Baosheng, Zhang Dahua, Joe Izen
Status: Memo available.

$B(D^0 \to \pi^+\pi^-, K^+K^-), B(D^+ \to \phi\pi^+)$
Authors: Rong Gang, Zhao Jiawei

ψ' Physics

$B(\psi' \to$ Baryons)
Authors: Jim Panetta, Frank Porter, Pan Lingjun, Steve Olsen
Refs: Zhu Yucan, Hu Jingliang, Lou Xinchou
Status: Final review. TBS.

$B(\psi' \to 5\ \gamma$'s)
Authors: Yang Wei, Li Haibo
Refs: Li Haibo, Xie Yiaohong, Joe
Status: Analysis memo written by Yang Wei.

$B(\psi' \to \gamma(\pi\pi,\ K^+K^-, K^0K^0))$
Authors: Yang Wei
Refs: Li Haibo, Xinhua Li, Joe
Status: Being updated for release to BES.

$B(\psi' \to$ Vector Pseudoscalar)
Authors: Yuan Changzheng, Chen Yu, Gu Yifan, Lu Feng, Steve Olsen, Han Ying, Ban Yong
Refs: Zhang Changchun, Shen Xiaoyan, Bill Dunwoodie
Status: Chen Yu submitted an analysis memo.
Steve has written an analysis memo: Isospin Violations in $\psi(2S) \to$ VP Decays
Liu Feng has checked many of the same modes and agrees on most. Need memo.

$B(\psi' \to \tau^+\tau^-)$
Authors: Yu Chunxu, Luo Yong, Qi Nading, Cui Xiangzhong, Gu Yifan, Hu Tau
Refs: Joe Izen, Hu Tao, Xue Shengtian
Status: Waiting on theorist. Hu Tau is preparing a new draft.

$B(\psi' \to \pi\pi J/\psi)$
Authors: Zhang Liansheng, Chen Jianchuan
Refs:
Status:

Study of χ_c to Resonances
Authors: Gary Varner
Status: Small analyses are combined, thesis written.
IHEP student to work on this.

DOZI Violation in ψ' Hadronic Decays
Authors: Liu Feng
Refs: Li Xinhua, Yuan Changzheng, and Steve
Status: Final review. TBS.

$\psi' \to n(\pi^+\pi^-), n(\pi^+\pi^-)\pi^0, \pi^+\pi^-(KK, p\overline{p})$
Authors: Ying Jun
Status: Analysis in progress

$\psi' \to J/\psi + neutrals$
Authors: Lu Feng, Liu Feng, and Zhang Lin
Status: In progress. Authors must understand differences.

Search for $\psi' \to \pi^0 h_c, h_c \to \pi^+\pi^- J/\psi$ and $\psi' \to \eta J/\psi$
Authors: Fred Harris
Status: Analysis memo written - very preliminary.

ψ' Scan Analysis
Authors: Mo Xiaohu, Zhu Yongsheng, and Fred

J/ψ Physics with ψ' Sample

Search for new particles in $\psi' \to \pi^+\pi^-\rho\pi$
Authors: Steve Olsen and Xie Yuehong
Refs: Rusty, Dahua Zhang, Haibo Li
Status: Analysis note written.

J/ψ Physics

$J/\psi \to \gamma\gamma V$ (V=ϕ,ρ)
Status: Memo written.

$J/\psi \to \gamma\pi^+\pi^-$
Status: Memo Written.

$J/\psi \to p\overline{p}\eta$
Status: Memo Written.

$J/\psi \to DX$
Authors: Rong Gang, X. M. Zhang, and Z. G. Zhao
Refs:
Status:

$J/\psi \to \mu e$

$e^+e^- \to \gamma J/\psi$ at 4.03 GeV
Authors: Richard Croley, Xinchou Lou
Refs:
Status:

R Measurement

Full R Scan Measurement
Authors: R WG (Contact Zhao Zhengguo)
Refs: Steve Olsen, Walter Toki, and Yuan Changzheng, Zhang changchun
Status: Analysis in progress

Event Shape Analysis
Authors: R WG (Contact Zhao Zhengguo)

Other

BES II Detector
Authors: Li Jin, Rusty, etc.
Refs: Zhu Yucan, Guo Yanan, and Derrick
Status: Submitted to NIM.