

Abstract Submitted
for the APR06 Meeting of
The American Physical Society

A Study of $H \rightarrow WW^* \rightarrow \ell\nu jj$ at CMS HEEJONG KIM,
N. AKCHURIN, Texas Tech University, J. DAMGOV, INRNE-BAS/FNAL, S.
KUNORI, U. Maryland, H. PI, University of Florida, E. YAZGAN, Middle East
Technical University/FNAL, CMS COLLABORATION — One of the most chal-
lenging channels for observing Higgs boson production at the Large Hadron Collider
(LHC) is a Higgs which is produced via the Vector Boson Fusion process and which
then decays $H \rightarrow WW^* \rightarrow \ell\nu jj$ (ℓ is an electron or muon, j is a jet). We present
results of a study of the sensitivity of the CMS experiment for this process, assuming
Higgs mass at $120 \text{ GeV}/c^2$.

Sarah Eno
U. Maryland

Date submitted: 11 Jan 2006

Electronic form version 1.4