

Abstract Submitted
for the SES14 Meeting of
The American Physical Society

The signal strength of CP-odd spin zero state in the model of electroweak scaled right-handed neutrinos at LHC VINH HOANG, HUNG PHAM, AJINKYA KAMAT, Univ of Virginia — We analyze and compute the signal strength of one CP-odd spin zero state in the model of electroweak scaled right-handed neutrinos ($EW\nu_R$) model. The signal strength is investigated in various major channels at LHC, $\gamma\gamma$, VV , and $b\bar{b}$. With the high statistic in $\gamma\gamma$ channel, we can have an exclusive region, $130 \div 150 GeV$ for this CP-odd scalar. We also show an interesting decay mode which mimics WW process. From that, an upper limit for coupling of a singlet with right-handed doublets is imposed.

Vinh Hoang
Univ of Virginia

Date submitted: 02 Oct 2014

Electronic form version 1.4