

Dr. Talab Hussain

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Curriculum Vitae

1. Designation: Assistant Prof. at Centre for High Energy Physics

2. Date of Joining the Centre: September, 2009

3. Academic Qualifications

- **PhD in High Energy Physics (2011)**
(Centre for High Energy Physics, University of the Punjab, Pakistan.)
- **MPhil in High Energy Physics (2007)**
(Centre for High Energy Physics, University of the Punjab, Pakistan.)
- **MSc Computer Science (2003)**
(University of Engineering and Technology Lahore, Pakistan.)
- **MSc Physics (1998)**
(Science College Wahdat Road, Lahore)

4. Date of Birth: 14th April, 1975

5. Research Publications in Impact Factor Journals:

1. The first evidence of $\psi(2S) \rightarrow \Omega^- \bar{\Omega}^+$ (from PhD work), accepted by Chinese Physics C, August, 2012, BESII Collaboration
2. Two-photon widths of the $\chi_{c0,2}$ states and helicity analysis for $\chi_{c2} \rightarrow \gamma\gamma$, BESIII Collaboration, Phys. Rev. D 85, 112008 (2012)
3. Search for a light exotic particle in J/ψ radiative decays, BESIII Collaboration, Phys. Rev. D 85, 092012 (2012)
4. Measurements of the mass and width of the η_c using the decay $\psi(3686) \rightarrow \gamma\eta_c$, BESIII Collaboration, Phys. Rev. Lett. 108, 222002 (2012)
5. “Precision measurement of the branching fractions of $J/\psi \rightarrow \pi^+ \pi^- \pi^0$ and $\psi' \rightarrow \pi^+ \pi^- \pi^0$ ”, BESIII Collaboration, Phys.Lett. B710 (2012) 594-599

6. "First observation of $\eta(1405)$ decays into $f_0(980)\pi^0$ ", BESIII Collaboration, Phys.Rev.Lett. 108 (2012) 182001
7. Spin-Parity analysis of $\overline{P}P$ mass threshold structure in J/ψ and ψ' radiative decays, BESIII Collaboration, Phys.Rev.Lett. 108 (2012) 112003
8. "Higher-order multipole amplitude measurement in $\psi' \rightarrow \gamma\chi_{c2}$ ", BESIII Collaboration, Phys. Rev. D (USA) 84, 092006 (2011).
9. "Search for η_c' decays into vector meson pairs", BESIII Collaboration, Phys. Rev. D (USA) 84, 091102 (2011).
10. " $\eta\pi^+\pi^-$ Resonant Structure around 1.8 GeV/c² and $\eta(1405)$ in $J/\psi \rightarrow \omega\eta\pi^+\pi^-$ ", BESIII Collaboration. (2011) Phys. Rev. Lett. (USA), 107, 182001(2011).
11. "Observation of χ_{cJ} decaying into the $p\bar{p}K^+K^-$ final state", BESIII Collaboration, Phys. Rev. D (USA), 83, 112009 (2011).
12. "Study of χ_{cJ} radiative decays into a vector meson", BESIII Collaboration, Phys. Rev. D (USA) 83, 112005 (2011).
13. "Search for CP and P violating pseudoscalar decays into $\pi^+\pi^-$ ", BESIII Collaboration, Phys. Rev. D (USA) 84, 032006 (2011)
14. "Observation of χ_{c1} decays into vector meson pairs $\phi\phi$, $\omega\omega$ and $\omega\phi$ ", BESIII Collaboration. Phys. Rev. Lett. (USA), 107, 092001 (2011) .
15. "Confirmation of the X(1835) and observation of the resonances X(2120) and X(2370) in $J/\psi \rightarrow \gamma\pi^+\pi^-\eta'$ ", BESIII Collaboration, Phys. Rev. D (USA) 106, 072002 (2011).
16. "Evidence for ψ' decays into $\gamma\pi^0$ and $\gamma\eta$ ", BESIII Collaboration, Phys. Rev. Lett. (USA) 105, 261801 (2011).
17. "First observation of the decays $\chi_{cJ} \rightarrow \pi^0\pi^0\pi^0\pi^0$ ", BESIII Collaboration, Phys. Rev. D (USA), Phys. Rev. D (USA) 83, 012006 (2011).
18. "Measurement of the Matrix Element for the Decay $\eta'(958) \rightarrow \eta\pi^+\pi^-$ ", BESIII Collaboration, Phys. Rev. D. (USA), 83, 012003 (2011)
19. "Study of $a_0(980)$ — $f_0(980)$ mixing", BESIII Collaboration, Phys. Rev. D, (USA), 83, 032003 (2011).

6. Papers Presented and Published in Refereed International Conferences :

"GEANT4: Applications in High Energy Physics", AIP Conf. Proc., Volume 888, February 14, 2007, pp. 301-304.

7. International Research Collaboration:

Member of Beijing Spectrometer III (BESIII) Collaboration