

DR. ABRAR AHMAD ZAFAR

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Curriculum Vitae

Academic & Professional Qualification:

- **PhD High Energy Physics** from Centre for High Energy Physics, University of the Punjab, Lahore.(2011)
- **M.Phil** (2004-2006)
High Energy Physics from Centre for High Energy Physics, University of the Punjab, Lahore.

Research Interest

Experimental high energy physics (Data Analysis), Computational Physics Simulation.

PhD/ M.Phil Supervision:

Has supervised Ph.D / M.Phil scholars with significant publications

Level	No. of students Supervised & Awarded Degree	Ongoing Students
M. Phil	10	2
Ph. D	--	3

International Collaboration

Member of Beijing Spectrometer-3(BESIII) Collaboration at Institute of High Energy Physics, Beijing, CHINA.

Teaching Experience:

I worked as lecturer in Physics for two years i.e September 2009 to December 2011 at Centre for High Energy Physics. I worked as Assistant Professor(on-adhoc basis) for 2011-2014 and working as regular Assistant Professor since March 2014 at Centre for High Energy Physics, University of the Punjab, Lahore.

List of Publication:

1	Geant4: Applications in High Energy Physics (with Tariq Mahmood et al): CP888 (Published by AIP with an impact factor), <i>Modern Trends in Physics Research, Second International Conference on Modern Trends in Physics Research___MTPR-06</i> edited by L. EI Nadi 301 (2007).	4.691
2	" <i>Study of $a_0(980)$—$f_0(980)$ mixing</i> ", BESIII Collaboration, Phys. Rev. D, (USA) 83 , 032003 (2011).	
3	" <i>Measurement of the Matrix Element for the Decay $\eta'(958) \rightarrow \eta \pi^+ \pi^-$</i> ", BESIII Collaboration, Phys. Rev. D. (USA) 83 , 012003 (2011)	4.691
4	" <i>First observation of the decays $\chi_{cJ} \rightarrow \pi^0 \pi^0 \pi^0 \pi^0$</i> ", BESIII Collaboration, Phy. Rev. D (USA) 83 , 012006 (2011).	4.691
5	" <i>Evidence for ψ decays into $\gamma \eta$ and $\gamma \pi^0$</i> ", BESIII Collaboration, Phy. Rev. Lett. (USA) 105 , 261801 (2011).	7.943
6	" <i>Confirmation of the $X(1835)$ and observation of the resonances $X(2120)$ and $\psi \rightarrow \gamma \pi^+ \pi^- \eta$</i> ", BESIII Collaboration, Phy. Rev. D (USA) 106 , 072002 (2011).	4.691
7	" <i>Observation of χ_{c1} decays into vector meson pairs $\phi \phi, \omega \omega$ and $\omega \phi$</i> ", BESIII Collaboration. Phys. Rev. Lett. (USA) 107 , 092001 (2011).	7.943
8	" <i>Search for CP and P violating pseudoscalar decays into $\pi \pi$</i> ", BESIII Collaboration, Phy. Rev. D (USA) 84 , 032006 (2011)	4.691
9	" <i>Study of η_c radiative decays into a vector meson</i> ", BESIII Collaboration, Phy. Rev. D (USA) 83 , 112005 (2011).	4.691
10	" <i>Observation of χ_{cJ} decaying into the $p \bar{p} K^+ K^-$ final state</i> ", BESIII Collaboration, Phys. Rev. D (USA) 83 , 112009 (2011).	4.691
11	" <i>$\eta \pi^+ \pi^-$ Resonant Structure around 1.8 GeV/c² and $\eta(1405)$ in $J/\psi \rightarrow \omega \eta \pi^+ \pi^-$</i> ", BESIII Collaboration. (2011) Phys. Rev. Lett. (USA) 107 , 182001(2011).	7.943
12	" <i>Search for η_c decays into vector meson pairs</i> ", BESIII Collaboration, Phy. Rev. D (USA) 84 , 091102 (2011).	4.691
13	" <i>Higher - order multipole amplitude measurement in $\psi \rightarrow \gamma \chi_{c2}$</i> ", BESIII Collaboration, Phy. Rev. D (USA) 84 , 092006 (2011).	4.691
14	" <i>Development and performance characterization of low, medium and high vacuum primary standards</i> " Measurement 44, 1073-1079 (2011).(with H.M. Akram)	1.13
15	" <i>Spin-Parity Analysis of $p \bar{p}$ mass Threshold Structure in J/ψ and $\psi(3686)$ Radiative Decays</i> ", BESIII Collaboration. Phys. Rev. Lett. (USA) 108 , 112003 (2012).	7.943
16	" <i>First Observation of $\eta(1405)$ Decays into $f^0(980)\pi^0$</i> ", BESIII Collaboration. Phys. Rev. Lett. (USA) 108 , 182001 (2012)	7.943
17	" <i>Search for a light exotic particle in J/ψ radiative decays</i> ", BESIII Collaboration, Phys. Rev. D (USA) 85 , 092012 (2012)	4.691

18	“ <i>Measurements of the Mass and Width of the η_c Using the Decay $\psi(3686)\rightarrow\gamma\eta_c$”</i> , BESIII Collaboration, Phys. Rev. Lett. (USA) 108 , 222002 (2012)	7.943
19	“ <i>Two-photon widths of the $\chi_{c0,2}$ states and helicity analysis for $\chi_{c2}\rightarrow\gamma\gamma$”</i> , BESIII Collaboration, Phys. Rev. D (USA) 85 , 112008 (2012)	4.691
20	“ <i>First Observation of the M1 Transition $\psi(3686)\rightarrow\gamma\eta_c(2S)$”</i> , BESIII Collaboration, Phys. Rev. Lett. (USA) 109 , 042003 (2012)	7.943
21	“ <i>First observation of the isospin violating decay $J/\psi\rightarrow\Lambda\bar{\Sigma}^0+c.c.$”</i> , BESIII Collaboration, Phys. Rev. D (USA) 86 , 032008 (2012)	4.691
22	“ <i>Study of $J/\psi\rightarrow p\bar{p}$ and $J/\psi\rightarrow n\bar{n}$”</i> , BESIII Collaboration, Phys. Rev. D (USA) 86 , 032014 (2012)	4.691
23	“ <i>Observation of χ_{cJ} decays to $\Lambda\bar{\Lambda}\pi^+\pi^-$”</i> , BESIII Collaboration, Phys. Rev. D (USA) 86 , 052004 (2012)	4.691
24	“ <i>Measurement of χ_{cJ} decaying into $p\bar{n}\pi$ and $p\bar{n}\pi\pi^0$”</i> , BESIII Collaboration, Phys. Rev. D (USA) 86 , 052011 (2012)	4.691
25	“ <i>Observation of $e^+e^-\rightarrow\eta J/\psi$ at center-of-mass energy $\sqrt{s}=4.009$ GeV”</i> , BESIII Collaboration, Phys. Rev. D (USA) 86 , 071101 (2012)	4.691
26	“ <i>Evidence for the Direct Two-Photon Transition from $\psi(3686)$ to J/ψ”</i> , BESIII Collaboration, Phys. Rev. Lett. (USA) 109 , 172002 (2012)	7.943
27	“ <i>Experimental study of ψ' decays to $K^+K\pi^0$ and $K^+K\eta$”</i> , BESIII Collaboration, Phys. Rev. D (USA) 86 , 072011 (2012)	4.691
28	“ <i>Precision measurements of branching fractions for $\psi'\rightarrow\pi^0 J/\psi$ and $\eta J/\psi$”</i> , BESIII Collaboration, Phys. Rev. D (USA) 86 , 092008 (2012)	4.691
29	“ <i>Study of $\psi(3686)\rightarrow\pi^0 h_c$, $h_c\rightarrow\gamma\eta_c$ via η_c exclusive decays”</i> , BESIII Collaboration, Phys. Rev. D (USA) 86 , 092009 (2012)	4.691
30	“ <i>Observation of η_c decay into $\Sigma^+\bar{\Sigma}^-$ and $\Xi^-\bar{\Xi}^+$ final states”</i> , BESIII Collaboratio, Phys. Rev. D (USA) 87 , 012003 (2013)	4.691
31	“ <i>Search for hadronic transition $\chi_{cJ}\rightarrow\eta_c\pi^+\pi^-$ and observation of $\chi_{cJ}\rightarrow K\bar{K}\pi\pi$”</i> , BESIII Collaboration, Phys. Rev. D (USA) 87 , 012002 (2013)	4.691
32	“ <i>Observation of Two New N^* Resonances in the Decay $\psi(3686)\rightarrow p\bar{p}\pi^0$”</i> , BESIII Collaboration, Phys. Rev. Lett. (USA) 110 , 022001 (2013)	7.943
33	“ <i>Measurements of $\psi'\rightarrow\bar{p}K+\Sigma^0$ and $\chi_{cJ}\rightarrow\bar{p}K^+\Lambda$”</i> , BESIII Collaboration. Phys. Rev. D (USA) 87 , 012007 (2013)	4.691
34	“ <i>Search for η and η' invisible decays in $J/\psi\rightarrow\phi\eta$ and $\phi\eta'$”</i> , BESIII Collaboration. Phys. Rev. D (USA) 87 , 012009 (2013)	4.691
35	“ <i>Evidence for $\eta_c\rightarrow\gamma\gamma$ and measurement of $J/\psi\rightarrow 3\gamma$”</i> , BESIII Collaboration. Phys. Rev. D (USA) 87 , 032003 (2013)	4.691
36	“ <i>Search for η and $\eta'\rightarrow\pi^+e^-\bar{\nu}_e+c.c.$ decays in $J/\psi\rightarrow\phi\eta$ and $\phi\eta'$”</i> , BESIII Collaboration. Phys. Rev. D (USA) 87 , 032006 (2013)	4.691
37	“ <i>Measurements of baryon pair decays of χ_{cJ} mesons”</i> , BESIII Collaboration. Phys. Rev. D (USA) 87 , 059901 (2013)	4.691
38	“ <i>Study of the near-threshold ω phi mass enhancement in doubly OZI-suppressed $J/\psi\rightarrow\gamma\omega$ phi decays”</i> , BESIII Collaboration Phys. Rev. D (USA) 87 , 032008 (2013)	4.691
39	“ <i>Observation of $\eta(2S)$ in $\psi'\rightarrow\gamma Ks K^+\pi^-\pi^-\pi^+c.c.$”</i> , BESIII Collaboration, Phys. Rev. D (USA) 87 , 052005 (2013)	4.691
40	“ <i>Measurements of the branching fractions for J/ψ and $\psi'\rightarrow\Lambda\Lambda\pi^0$ and $\Lambda\Lambda\eta$”</i> , BESIII Collaboration, Phys. Rev. D (USA) 87 , 052007 (2013)	4.691
41	“ <i>Study of $\psi(3686)\rightarrow\omega K\bar{K}\pi$ decays”</i> , BESIII Collaboration, Phys. Rev. D (USA) 87 , 092006 (2013)	4.691

42	" <i>Partial wave analysis of $J/\psi \rightarrow \gamma\eta\eta'$</i> ", BESIII Collaboration, Phys. Rev. D (USA) 87 , 092009 (2013)	4.691
43	" <i>Measurement of $\eta' \rightarrow \pi^+\pi^-e^+e^-$ and $\eta' \rightarrow \pi^+\pi^-\mu^+\mu^-$</i> ", BESIII Collaboration, Phys. Rev. D (USA) 87 , 092011 (2013)	4.691
44	" <i>Study of $J/\psi \rightarrow \omega p\bar{p}$ at BESIII</i> ", BESIII Collaboration, Phys. Rev. D (USA) 87 , 112004 (2013)	4.691
45	" <i>Search for the lepton flavor violation process $J/\psi \rightarrow e\mu$ at BESIII</i> ", BESIII Collaboration, Phys. Rev. D (USA) 87 , 112007 (2013)	4.691
46	" <i>Observation of a Charged Charmoniumlike Structure in $e^+e^- \rightarrow \pi^+\pi^-J/\psi$ at $\sqrt{s}=4.26$ GeV</i> ", BESIII Collaboration, Phys. Rev. Lett.(USA) 110 , 252001 (2013)	7.943
47	" <i>Search for baryonic decays of $\psi(3770)$ and $\psi(4040)$</i> ", BESIII Collaboration, Phys. Rev. D (USA) 87 , 112011 (2013).	4.691
48	" <i>Precision Measurements of $\psi(3686) \rightarrow \pi^+\pi^-J/\psi$ and $J/\psi \rightarrow l^+l^-$</i> ", BESIII Collaboration. Phys. Rev. D (USA) 88 , 032007 (2013)	4.691
49	" <i>Partial wave analysis of $\psi(2S) \rightarrow p p \eta'$</i> ", BESIII Collaboration, Phys. Rev. D (USA) 88 , 032010 (2013)	4.691
50	" <i>Observation of a structure around 1.84 GeV in $J/\psi \rightarrow \gamma 3(\pi^+\pi^-)$</i> ", BESIII Collaboration, Phys. Rev. D. (USA). 88 , 091502 (2013)	7.943
51	" <i>Search for $\eta_c(2S)h_c \rightarrow p\bar{p}$ decays and measurements of the $\chi_{cJ} \rightarrow p\bar{p}$ branching fractions</i> ", BESIII Collaboration, Phys. Rev. D (USA) 88 , 112001(2013)	4.691
52	" <i>Observation of the decay $\psi 3686 \rightarrow \Lambda \Sigma \pi$</i> ", BESIII Collaboration, Phys. Rev. D (USA) 88 , 112007 (2013)	4.691
53	" <i>Observation of a charged charmoniumlike structure $Z_c(4020)$ and search for the $Z_c(3900)$ in e^+e^- to $\pi^+\pi^-h_c$</i> ", BESIII Collaboration, Phys. Rev. Lett. (USA) 111 , 242001 (2013)	7.943
54	" <i>Amplitude analysis of the $D^+ \rightarrow K^0_S \pi^+ \pi^0$ Dalitz plot</i> ", BESIII Collaboration, Phys. Rev. D (USA) 89 , 052001 (2014)	4.691
55	" <i>Observation of a Charged $(DD^*)_{\pm}$ Mass Peak in $e^+e^- \rightarrow \pi DD^*$ at $\sqrt{s}=4.26$ GeV</i> ", BESIII Collaboration, Phys. Rev. Lett. (USA) 112 , 022001(2014)	7.943
56	" <i>Observation of a Charged Charmoniumlike Structure in $e^+e^- \rightarrow D^*D^* \pi^+$ process at 4.26 GeV</i> ", BESIII Collaboration, Phys. Rev. Lett. (USA) 112 , 132001 (2014)	7.943
57	" <i>Precision measurements of $B(D^+ \rightarrow \mu^+ \nu_\mu)$, the pseudoscalar decay constant f_{D^+}, and the quark mixing matrix element V_{cd}</i> ", BESIII Collaboration, Phys. Rev. D (USA) 89 , 051104 (2014)	4.691
58	" <i>Observation of $e^+e^- \rightarrow \gamma X(3872)$ at BESIII</i> ", BESIII Collaboration, Phys. Rev. Lett. (USA) 112 , 092001 (2014)	7.943
59	" <i>Observation of electromagnetic Dalitz decays $J/\psi \rightarrow P e^+e^-$</i> ", BESIII Collaboration, Phys. Rev. D (USA) 89 , 092008 (2014).	4.691
60	" <i>Measurement of χ_{cJ} decaying into $\eta' K^+ K^-$</i> ", BESIII Collaboration, Phys. Rev. D (USA) 89 , 074030 (2014).	4.691
61	" <i>Search for the rare decays $J/\psi \rightarrow D_s^- \rho^+$ and $J/\psi \rightarrow D^{-0} K^{*0}$</i> ", BESIII Collaboration, Phys. Rev. D (USA) 89 , 071101(R) (2014).	4.691
62	" <i>Measurement of the $D \rightarrow K^- \pi^+$ strong phase difference in $\psi 3770 D^0 D^0$</i> ", BESIII Collaboration, Phys.Lett. B (USA) 734 (2014)	4.156
63	" <i>Search for the radiative transitions $\psi(3770) \rightarrow \gamma\eta_c$ and $\gamma\eta_c(2S)$</i> ", BESIII Collaboration, Phys. Rev. D (USA) 89 , 112005 (2014)	4.691

64	“Precision measurement of the mass of the τ lepton”, BESIII Collaboration, Phys. Rev. D (USA) 90 , 012001 (2014)	4.691
65	“Measurement of the branching fraction for $\psi(3686) \rightarrow \omega K^+ K^-$ ”, BESIII Collaboration, Phys. Rev. D (USA) 89 , 112006 (2014)	4.691
66	“Observation of $\eta' \rightarrow \pi^+ \pi^- \pi^+ \pi^-$ and $\eta' \rightarrow \pi^+ \pi^- \pi^0 \pi^0$ ”, BESIII Collaboration, Phys. Rev. Lett (USA) 112 , 251801 (2014)	7.943
67	“Study of $e^+ e^-$ to $p\bar{p} \pi^0$ in the Vicinity of the $\psi(3770)$ ”, BESIII Collaboration, Phys. Rev. D (USA) 90 , 032007 (2014)	4.691
68	“Search for the weak decays $J/\psi \rightarrow D_s^{*-} e^+ \nu_e + c.c.$ ”, BESIII Collaboration, Phys. Rev. D (USA) 90 , 112014 (2014)	4.691
69	“Observation of $J/\psi \rightarrow p\bar{p} a_0(980)$ at BESIII”, BESIII Collaboration, Phys. Rev. D (USA) 90 , 052009 (2014)	4.691
70	“Search for $C -$ parity violation in $J/\psi \rightarrow \gamma\gamma$ and $\gamma\phi$ ”, BESIII Collaboration, Phys. Rev. D (USA) 90 , 092002 (2014)	4.691
71	“Measurement of the $D \rightarrow K - \pi +$ strong phase difference in $\psi(3770) \rightarrow D^0 \bar{D}^0$ ”, BESIII Collaboration, Phys. Lett. B (USA) 734 , 227–233 (2014)	6.131
72	“Study of $e^+ e^- \rightarrow p\bar{p}$ in the vicinity of $\psi(3770)$ ”, BESIII Collaboration, Phys. Lett. B (USA) 735 , 101–107 (2014)	6.131
73	“Study of J/ψ to $\eta \pi^+ \pi^-$ at BESIII”, BESIII Collaboration, Phys. Rev. D (USA) 91 , 052017 (2015)	4.691
74	“Observation of electromagnetic Dalitz decays $J/\psi \rightarrow Pe^+ e^-$ ”, BESIII Collaboration, Phys. Rev. D (USA) 89 , 092008 (2014)	4.691
75	“Observation of $e^+ e^- \pi^0 \pi^0 h_c$ and a Neutral Charmoniumlike Structure $Z_c 4020^0$ ”, BESIII Collaboration, Phys. Rev. Lett. (USA) 113 , 212002 (2014)	7.943
76	“Precision measurement of the D^{*0} decay branching fractions”, BESIII Collaboration, Phys. Rev. D (USA) 91 , 031101(R) (2015)	4.691
77	“Search for the $Y 4140$ via $e^+ e^- \rightarrow \gamma\phi J/\psi$ at $s 4.23, 4.26$ and 4.36 GeV”, BESIII Collaboration, Phys. Rev. D (USA) 91 , 032002 (2015)	4.691
78	“Publisher’s Note: Observation of $J/\psi \rightarrow p\bar{p} a_0(980)$ at BESIII”, [Phys. Rev. D 90 , 052009 (2014)], BESIII Collaboration, Phys. Rev. D (USA) 91 , 039901 (2015)	4.691
79	“Study of $e^+ e^- \rightarrow \omega \chi_{c1}$ at Center of Mass Energies from 4.21 to 4.42 GeV”, BESIII Collaboration, Phys. Rev. Lett. (USA) 114 , 092003 (2015)	7.943
80	“Study of $J/\psi \rightarrow \eta \phi \pi^+ \pi^-$ at BESIII”, BESIII Collaboration, Phys. Rev. D (USA) 91 , 052017 (2015)	4.691
81	“Measurements of $\psi(3686) \rightarrow K - \Lambda \bar{E}^+ + c.c.$ and $\psi(3686) \rightarrow \gamma K - \Lambda \bar{E}^+ + c.c.$ ”, BESIII Collaboration, Phys. Rev. D (USA) 91 , 092006 (2015)	4.691
82	“Measurement of $B(\psi(3770) \rightarrow \gamma \chi_{c1})$ and search for $\psi(3770) \rightarrow \gamma \chi_{c2}$ ”, BESIII Collaboration, Phys. Rev. D (USA) 91 , 092009 (2015)	4.691
83	“Observation of the electromagnetic doubly OZI-suppressed decay $J/\psi \rightarrow \phi \pi^0$ ”, BESIII Collaboration, Phys. Rev. D (USA) 91 , 112001 (2015)	4.691
84	“Measurement of the $e^+ e^- \rightarrow \eta J/\psi$ cross section and search for $e^+ e^- \rightarrow \pi^0 J/\psi$ at center-of-mass energies between 3.810 and 4.600 GeV”, BESIII Collaboration, Phys. Rev. D (USA) 91 , 112005 (2015)	4.691
85	“Measurement of the proton form factor by studying $e^+ e^- \rightarrow p \bar{p}$ ”, BESIII Collaboration, Phys. Rev. D (USA) 91 , 112004 (2015)	4.691

86	“Study of χ_{cJ} decaying into $\phi K^*(892)K^-$ ”, BESIII Collaboration, Phys. Rev. D (USA) 91, 112008 (2015)	4.691
87	“Search for $D^0 \rightarrow \gamma\gamma$ and improved measurement of the branching fraction for $D^0 \rightarrow \pi^0 \pi^0$ ”, BESIII Collaboration, Phys. Rev. D (USA) 91, 112015 (2015)	4.691
88	“Searches for isospin-violating transitions $\chi_{c0,2} \rightarrow \pi^0 \eta_c$ ”, BESIII Collaboration, Phys. Rev. D (USA) 91, 112018 (2015)	4.691
89	“Observation of the $\psi(1^3D_2)$ State in $e^+e^- \rightarrow \pi^+\pi^-\gamma\chi_{c1}$ at BESIII”, BESIII Collaboration, Phys. Rev. Lett.(USA) 115, 011803 (2015)	7.943
90	“Observation of the Dalitz decay $\eta' \rightarrow \gamma e^+e^-$ ”, BESIII Collaboration, Phys. Rev. D (USA)92, 012001 (2015)	4.691
91	“Search for the isospin violating decay $Y(4260) \rightarrow J/\psi \eta \pi^0$ ”, BESIII Collaboration, Phys. Rev. D (USA) 92, 012008 (2015)	4.691
92	“Observation of the isospin-violating decay $J/\psi \rightarrow \phi \pi^0 f_0(980)$ ”, BESIII Coll. Phys. Rev. D (USA) 92, 012007 (2015)	4.691
93	“Measurement of the matrix elements for the decays $\eta \rightarrow \pi^+\pi^-\pi^0$ & $\eta/\eta' \rightarrow \pi^0 \pi^0 \pi^0$ ”, BESIII Collaboration, Phys. Rev. D (USA)92, 012014 (2015)	4.691
94	“Observation and Spin-Parity Determination of the X(1835) in $J/\psi \rightarrow \gamma K^0_s K^0_s \eta$ ”, BESIII Collaboration, Phys. Rev. Lett. (USA)115, 091803 (2015)	7.943
95	“Search for $Z_c(3900)^\pm \rightarrow \omega \pi^\pm$ ”, BESIII Collaboration, Phys. Rev. D (USA)92, 032009 (2015)	4.691
96	“Observation of $Z_c(3900)^0$ in $e^+e^- \rightarrow \pi^0 \pi^0 J/\psi$ ”, BESIII Collaboration, Phys. Rev. Lett. (USA)115, 112003 (2015)	7.943
97	“Amplitude analysis of the $\pi^0 \pi^0$ system produced in radiative J/ψ decays”, BESIII Collaboration, Phys. Rev. D (USA)92, 052003 (2015)	4.691
98	“Observation of $\eta' \rightarrow \omega e^+e^-$ ”, BESIII Collaboration, Phys. Rev. D (USA)92, 051101(R) (2015)	4.691
99	“Measurement of the form factors in the decay $D^+ \rightarrow \omega e^+ \nu_e$ and search for the decay $D^+ \rightarrow \phi e^+ \nu_e$ ”, BESIII Collaboration, Phys. Rev. D (USA)92, 071101(R) (2015)	4.691
100	“Study of dynamics of $D^0 \rightarrow K^- e^+ \nu_e$ and $D^0 \rightarrow \pi^- e^+ \nu_e$ decays”, BESIII Collaboration, Phys. Rev. D (USA)92, 072012 (2015)	4.691
101	<i>“Evidence for $e^+e^- \rightarrow \gamma\chi_{c1,2}$ at center-of-mass energies from 4.009 to 4.360 GeV*”, BESIII Collaboration, Chin. Phys. C (CHINA)39, 4, 041001 (2015)</i>	1.313
102	“Observation of a Neutral Charmoniumlike state $Z_c(4025)0$ in $e^+ e^- \rightarrow (D^* D^{*\prime})^0 \pi^0$ ”, BESIII Collaboration, Phys. Rev. Lett. (USA)115, 182002 (2015)	7.943
103	“Confirmation of a charged charmoniumlike state $Z_c(3885)^\pm$ in $e^+e^- \rightarrow \pi^\pm (D \text{ Dbar}^*)^\pm$ with double D tag”, BESIII Collaboration, Phys. Rev. D (USA) 92, 092006 (2015)	4.691
104	“Measurement of the branching fractions of $D_s^+ \rightarrow \eta' X$ and $D_s^+ \rightarrow \eta' \rho^+$ in $e^+e^- \rightarrow D_s^+ D_s^-$ ”, BESIII Collaboration, Phys. Lett. B (USA)750, 466–474 (2015)	6.131

105	<u><i>"An improved limit for Γ_{ee} of $X(3872)$ and Γ_{ee} measurement of $\psi(3686)$", BESIII Collaboration, Phys. Lett. B (USA)749, 414–420 (2015)</i></u>	6.131
106	<u><i>"Measurement of γCP in $D^0-\bar{D}^0$ oscillation using quantum correlations in $e^+e^- \rightarrow D^0\bar{D}^0$ at $\sqrt{s} = 3.773$ GeV", BESIII Collaboration, Phys. Lett. B (USA) 744, 339–346 (2015)</i></u>	6.131
107	"Observation of $e^+e^- \rightarrow \omega\chi_{c1,2}$ near $s\sqrt{=}4.42$ and 4.6 GeV", BESIII Collaboration, Phys. Rev. D (USA) 93, 011102(R) (2016)	4.691
108	"Measurement of Azimuthal Asymmetries in Inclusive Charged Dipion Production in e^+e^- Annihilations at $s\sqrt{=}3.65$ GeV", BESIII Collaboration, Phys. Rev. Lett. (USA)116, 042001 (2016)	7.943
109	"Measurements of Absolute Hadronic Branching Fractions of the Λ^{+c} Baryon", BESIII Collaboration, Phys. Rev. Lett. (USA)116, 052001 (2016)	7.943
110	"Observation of the Singly Cabibbo-Suppressed Decay $D^+ \rightarrow \omega\pi^+$ and Evidence for $D^0 \rightarrow \omega\pi^0$ ", BESIII Collaboration, Phys. Rev. Lett. (USA)116, 082001 (2016)	7.943
111	"Search for a light CP-odd Higgs boson in radiative decays of J/ψ ", BESIII Collaboration, Phys. Rev. D (USA) 93, 052005 (2016)	4.691
112	"Study of $J/\psi \rightarrow p\bar{p}\pi$ at BESIII", BESIII Collaboration, Phys. Rev. D (USA) 93, 052010 (2016)	4.691
113	"Study of ψ decays to the $\Xi^-\bar{\Xi}^+$ and $\Sigma(1385)^\pm\Sigma^-(1385)^\pm$ final states", BESIII Collaboration, Phys. Rev. D (USA) 93, 072003 (2016)	4.691
114	"Search for the weak decay $\eta' \rightarrow K^\pm\pi^\mp$ and precise measurement of the branching fraction $B(J/\psi \rightarrow \phi\eta')$ ", BESIII Collaboration, Phys. Rev. D (USA) 93, 072008 (2016)	4.691
115	"Observation of pseudoscalar and tensor resonances in $J/\psi \rightarrow \gamma\phi\phi$ ", BESIII Collaboration, Phys. Rev. D (USA) 93, 12011 (2016)	4.691
116	"Observation of hc Radiative Decay $hc \rightarrow \gamma\eta'$ and Evidence for $hc \rightarrow \gamma\eta$ ", BESIII Collaboration, Phys. Rev. Lett. (USA)116, 251802 (2016)	7.943
117	"Observation of an Anomalous Line Shape of the $\eta'\pi^+\pi^-$ Mass Spectrum near the $p\bar{p}$ Mass Threshold in $J/\psi \rightarrow \gamma\eta'\pi^+\pi^-$ ", BESIII Collaboration, Phys. Rev. Lett. (USA)117, 042002 (2016)	7.943
118	"Study of $D^+ \rightarrow K^-\pi^+e^+\nu_e$ ", BESIII Collaboration, Phys. Rev. D (USA) 94, 032001 (2016)	
119	"Observation of $e^+e^- \rightarrow \eta'J/\psi$ at center-of-mass energies between 4.189 and 4.600 GeV", BESIII Collaboration, Phys. Rev. D (USA) 94, 032009 (2016)	
120	"Measurement of the $D^+_s \rightarrow \ell^+\nu\ell$ branching fractions and the decay constant f_{D^+} ", BESIII Collaboration, Phys. Rev. D (USA) 94, 072004 (2016)	
121	"Observation of $J/\psi \rightarrow \gamma\eta\pi^0$ ", BESIII Collaboration, Phys. Rev. D (USA) 94, 072005 (2016)	
122	Measurement of Singly Cabibbo Suppressed Decays $\Lambda^+_c \rightarrow p\pi^+\pi^-$ and $\Lambda^+_c \rightarrow pK^+K^-$, BESIII Collaboration, Phys. Rev. Lett. (USA)117, 232002 (2016)	
123	"Measurements of the absolute branching fractions for $D^+_s \rightarrow \eta e^+\nu_e$ and $D^+_s \rightarrow \eta' e^+\nu_e$ ", BESIII Collaboration, Phys. Rev. D (USA) 94, 112003 (2016)	

Research Projects:

Won a research project titled: “Search for isospin and strangeness violating decays of $\psi(2S)$ in BESIII” for year 2012-13, University of the Punjab, Lahore.

Conferences, Seminars, Workshops and Lectures attended:

- International Conference on physics and Contemporary Needs (ICPCN-2014), Nov 19-21, 2014. GCU, Lahore.
- Workshop on industrial vacuum applications, January 28-30, 2014. CHEP University of the Punjab, Lahore
- BESIII Collaboration Meeting in Winter Nov 23– 26, 2013. HuangShan, Anhui Province, China.
- Workshop on “Micro-Controllers Hands on Training”, held at CHEP on May 20-24, 2013.
- Seminar on “Cell Phones and Cancer” by Eric Swanson, March 29, 2013.
- 5th International Meeting on Particles and Fields (**IMPF 05**), March 25-28, 2013. CHEP, University of the Punjab, Lahore, Pakistan.
- The 6th Vacuum and Surface Sciences Conference of Asia and Australia (**VASSCAA-6**), October 9 - 13, 2012 in Islamabad, Pakistan.
- BES-3 Collaboration Meeting, (28-02) Dec 2011, Beijing, China
- 1st Workshop on Research Management (27th July, 2010) at IQTM, University of the Punjab.
- Attended the N* conference held at IHEP in 2008, Beijing, China.
- Attended the Nobel Lectures on November, 2008, delivered by Nobel Laureates, David J. Gross(2004), Martinus J. G. Veltman (1999) at IHEP(Institute of High Energy Physics), Beijing, China.
- Lecture on Dr.Abdul-Salam, delivered by Prof. K. R. Sreevnivasan (Director of ICTP, Trieste, Italy) at GCU Lahore in 2006.
- Seminar on LabView held on June 6, 2006 at Holiday Inn, Islamabad.
- Popular lecture on “Big Bang Theory” delivered by Dr. Pervez HoodBuoy in 2005 at Ali institute of education, Lahore.
- Lecture series on “An Introduction to general Relativity, Astrophysics, and Cosmology”, by Dr. Asghar Qadir, at Centre for High Energy Physics in 2006.
- International Conference on General Relativity held at Department of Mathematics, University of the Punjab, Lahore, Pakistan.
- Quality education workshop held under the cap of Beacon House in 2002.

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