



河南师范大学

学术学位授权点建设年度报告

(2021 年)

授权学科
(学院公章)

名称：物理学

代码：0702

授权级别

博士

硕士

2022 年 月 12 日

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“College of Physics, Henan

Normal University”

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Belle B Belle-II HIRFL-RIBLL BESIII B

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1		12174090		61	-
2		12147229		40	-
3		12105079		30	-
4	B->SM	12105078		30	-
5	BESIII Ds+>tau+nu_tau	12105077		30	-
6	-	12104135		30	-
7		12105080		30	-
8	为	62105096		30	-
9		62105095		30	-
10	为	62105097		30	-
11	b	21230041 0010		50	-
12		21230041 0054		25	-
13	为	22ZX013		30	-
14	PtSe2 PdSe2	21230041 0366		10	-
15		22A1400 20		3	-

16	KNN-NBT 为	22A1400 07		5	-
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20	PbS ZnO	21210221 0478		0	-

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Phys. Rev. Lett

	Superconductivity and topological properties of MgB2-type diborides from first principles	不		Physical Review B	2021,104, 134510	SCI
	Singlino-dominated dark matter in general NMSSM			Journal of High Energy Physics	2021,176(6):1-26	SCI
	Electron and muon anomalous magnetic moments in the inverse seesaw extended NMSSM			Physical Review D	2021,104(5):1	

	Observation of $\psi(3686) \rightarrow \chi(1530)^0$ anti- $\chi(1530)^0$ and $\chi(1530)^0$ anti- χ^0			Physical Review D	2021, 104, 092012	SCI
	Measurement of the Absolute Branching Fraction of $D_s^+ \rightarrow \tau^+ \nu$ via $\tau^+ \rightarrow e^+ \nu \nu$			Physical Review Letters	2021, 127: 171801	SCI
	Hawking radiation, local temperatures, and nonequilibrium thermodynamics of the black holes with non-Killing horizon			Physical Review D	2021, 104(2): 026011	SCI
	Kinetics and its turnover of Hawking-Page phase transition under the black hole evaporation			Physical Review D	2021, 104(8): 084060	SCI
	Probing black hole microstructure with the kinetic turnover of phase transition			Physical Review D	2021, 104(8): 084076	SCI
	Island may not save the information paradox of Liouville black holes			Physical Review D	2021, 104: 106015	SCI
	Nonreciprocal Tamm plasmon absorber based on lossy epsilon-near-zero materials			Optics Express	2021, 29(12): 17736-17745	SCI
	Tuning the magnetic anisotropy of ferromagnetic MnS ₂ monolayers via electron occupation of Mn d orbitals			Physical Review B	2021, 104(22): 224406	SCI
	Photoionization cross sections of the ground and first excited states of the OH radical			Physical Review A	2021, 103(6): 063101	SCI
□	Polarizabilities of hydrogen molecules calculated without using the Born-Oppenheimer approximation			Physical Review A	2021, 103, 062813	SCI
	Band evolution and Landau-Zener Bloch oscillations in strained photonic rhombic lattices			Optics Express	2021, 29(23): 37503-37514	SCI
	Higher-order exceptional point and Landau-Zener Bloch oscillations in driven non-Hermitian photonic Lieb lattices			Apl Photonics	2021(6): 126106	SCI
	Reversible Half Wave Rectifier Based on 2D InSe/GeSe Heterostructure with Near-Broken Band			Advanced Science	2021, 8(4): 1903252	SCI

	Alignment					
	Cross-Substitution Promoted Ultrawide Bandgap up to 4.5 eV in a 2D Semiconductor: Gallium Thiophosphate			Advanced Materials	2008761	SCI
	In-plane ferroelectricity in few-layered GeS and its van der Waals ferroelectric diodes			Nanoscale	2021	SCI
	Single production of vectorlike T quark decaying into Wb at the LHC and the future pp colliders			Physical Review D	2021,103, 036006	SCI
	Search for the singlet vectorlike lepton in semileptonic channel at future e + e - colliders			Physical Review D	2021,104, 055019	SCI
	reinvestigating the B -> PP decays by including the contributios from phi_B2			Physical Review D	2021, 103: 056006	SCI
	study of C parity violating and strangeness changing J/psi -> PP weak decays			Chinese Physics C	2021, 45 083104	SCI
□	Design of Highly Stable and Efficient Bifunctional MXene-Based Electrocatalysts for Oxygen Reduction and Evolution Reactions			Physical Review Applied	2021,15,4, 044053	SCI
	Search for the hyperon semileptonic decay - 0 e- e	不		Physical Review D	2021, 104 (7): 072007	SCI
	Singlino-dominated dark matter in Z3-symmetric NMSSM			Physical Review D	2021,104(1):1-18	SCI

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		APL Photonics, Optics Express
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		Photonics Research, Journal of Physical Chemistry Letters
		Physical Review Letters AM ACS Catalysis Physical Review B □ □

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1	2020			BESIII Workshop in Autumn of 2020	Search for hc hadronic decays	2020.9
2	2020			BESIII Workshop in Autumn of 2020	Measurement of (3770) J/	2020.9
3	2020			BESIII Collaboration Meeting in Winter of 2020	Search for hc hadronic decays	2020.12
4	2020			The 5th China LHC Physics		

				Workshop	LHC 13 TeV data and DM direct detection		
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Seminar

BESIII

Belle Belle II