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**Monthly Bulletin of Publications:
Faculty, Scientists and Students of IISER Pune.
AUGUST 2023**

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BIOLOGY

Journal Articles

Author(s) ROY, NAVEEN J.; Save, Shreyada N.; SHARMA, VIRENDER KUMAR; ABRAHAM, BENCHAMIN; KUTTANAMKUZHI, ABHIJITH; Sharma, Shilpy; LAHIRI, MAYURIKA; TALUKDAR, PINAKI

Title NAD(P)H:Quinone Acceptor Oxidoreductase 1 (NQO1) Activatable Salicylamide H⁺/Cl⁻ Transporters

Citation Chemistry—A European Journal.

Publisher Wiley

URI <https://doi.org/10.1002/chem.202301412>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8158>

Date of Publication 2023-06

Author(s) SAMANTA, ACHYUSMAN; Tiwari, Amrita

Title Trogocytosis and Acquired PD1 Receptor in Leukemia & Its Role in Cancer Immunology

Citation International Journal of Science and Research (IJSR), 12(07), 1763-1766.

Publisher International Journal of Science and Research

URI <https://www.ijsr.net/archive/v12i7/SR23723192828.pdf>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8169>

Date of Publication 2023-07

Author(s) Suresh, Varun; Muralidharan, Bhavana; PRADHAN, SAURABH J.; Bose, Mahima; D'Souza, Leora; Parichha, Arpan; REDDY, PULI CHANDRAMOULI; GALANDE, SANJEEV; Tole, Shubha

Title Regulation of chromatin accessibility and gene expression in the developing hippocampal primordium by LIM-HD transcription factor LHX2

Citation PLOS Genetics.

Publisher Public Library Science

URI <https://doi.org/10.1371/journal.pgen.1010874>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8170>

Date of Publication 2023-08

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Author(s) Vasudevan, N.; GOKHALE, RAJESH S. et al.
Title Synthesis, biological evaluation and docking studies of silicon incorporated diarylpyrroles as MmpL3 inhibitors: An effective strategy towards development of potent anti-tubercular agents
Citation European Journal of Medicinal Chemistry, 259, 115633.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.ejmech.2023.115633>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8163>
Date of Publication 2023-11

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CHEMISTRY

Journal Articles

Author(s) ARFIN, HABIBUL; Rathod, Radha; SHINGOTE, AJINKYA SUNDARNATH; Priolkar, K. R.; Santra, Pralay K.; NAG, ANGSUMAN

Title Short-Wave Infrared Emissions from Te^{4+} - Ln^{3+} (Ln: Er, Yb)-Codoped $\text{Cs}_2\text{NaInCl}_6$ Double Perovskites

Citation Chemistry of Materials.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acs.chemmater.3c01413>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8165>

Date of Publication 2023-08

Author(s) DESWAL, SWATI; PANDAY, RISHUKUMAR; Naphade, Dipti R.; Cazade, Pierre-Andre; Guerin, Sarah; Zareba, Jan K.; Steiner, Alexander; OGALE, SATISHCHANDRA; Anthopoulos, Thomas D.; BOOMISHANKAR, RAMAMOORTHY

Title Design and Piezoelectric Energy Harvesting Properties of a Ferroelectric Cyclophosphazene Salt

Citation Small.

Publisher Wiley

URI <https://doi.org/10.1002/sml.202300792>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8122>

Date of Publication 2023-07

Author(s) DUTTA, SUBHAJIT; MANDAL, WRITAKSHI; DESAI, AAMOD V.; FAJAL, SAHEL; DAM, GOURAB K.; Mukherjee, Soumya; GHOSH, SUJIT K.

Title A luminescent cationic MOF and its polymer composite membrane elicit selective sensing of antibiotics and pesticides in water

Citation Molecular Systems Design & Engineering

Publisher Royal Society of Chemistry

URI <https://doi.org/10.1039/D3ME00008G>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8144>

Date of Publication 2023-07

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Author(s) FAJAL, SAHEL; DUTTA, SUBHAJIT; GHOSH, SUJIT K.
Title Porous organic polymers (POPs) for environmental remediation
Citation Materials Horizons.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/D3MH00672G>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8164>
Date of Publication 2023-07

Author(s) HALDAR, HRITWIK; Yildiz, Cem. B.; MAJUMDAR, MOUMITA
Title Coordination Chemistry of the Antimony(III) and Bismuth(III) Cations using Bis(α -iminopyridine) as Ligand
Citation ChemPlusChem, 88(07).
Publisher Wiley
URI <https://doi.org/10.1002/cplu.202300211>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8120>
Date of Publication 2023-07

Author(s) Mallick, Argha Mario; Biswas, Abhijit; Mishra, Sukumar; JADHAV, SONALI; Chakraborty, Kasturee; Tripathi, Archana; MUKHERJEE, ARNAB; Roy, Ritunarna Sinha
Title Engineered vitamin E-tethered non-immunogenic facial lipopeptide for developing improved siRNA based combination therapy against metastatic breast cancer
Citation Chemical Science, 14(29), 7842-7866.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/D3SC01071F>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8159>
Date of Publication 2023-08

Author(s) MOHANTA, NIRMALA; Samal, Pragnya Paramita; PANDEY, AKANKSHA M.; MONDAL, SHANKHAJIT; Krishnamurthy, Sailaja; GNANAPRAKASAM, BOOPATHY
Title Catalyst-Assisted Selective Vinylolation and Methylallylation of a Quaternary Carbon Center Using *tert*-Butyl Acetate
Citation Journal of Organic Chemistry, 88(14), 9686-9703.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.joc.2c03072>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8142>
Date of Publication 2023-07

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Author(s) NAYAK, BHOJKUMAR; MONDAL, RITWIK; THOTIYL, MUSTHAFA OTTAKAM
Title Electrostatically driven unidirectional molecular flux for high performance alkaline flow batteries
Citation Nanoscale.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/D3NR02727A>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8147>
Date of Publication 2023-08

Author(s) PAL, RAPTI; GHOSH, PRASENJIT
Title C-Vacancy Mediated Methane Activation and C-C Coupling on TiC(001) Surfaces: A First-Principles Investigation
Citation Journal of Physical Chemistry C, 127(33), 16422-16432.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.jpcc.3c03873>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8153>
Date of Publication 2023-08

Author(s) PANDEY, AKANKSHA; ROY, SARUPA; SRIVATSAN, SEERGAZHI G.
Title Probing the competition between duplex, G-quadruplex and i-motif structures of the oncogenic c-Myc DNA promoter region
Citation Chemistry -An Asian Journal.
Publisher Wiley
URI <https://doi.org/10.1002/asia.202300510>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8118>
Date of Publication 2023-07

Author(s) PANWARIA, PRAKASH; DAS, ALOKE
Title Modulation of $n \rightarrow \pi^*$ Interaction in the Complexes of *p*-Substituted Pyridines with Aldehydes: A Theoretical Study
Citation Journal of Physical Chemistry A, 127(29), 6081-6090.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.jpca.3c03103>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8126>
Date of Publication 2023-07

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Author(s) RAVINDRA BHOGE, PREETI; CHANDRA, ANKITA; KIKKERI, RAGHAVENDRA
Title The Impact of Nanomaterial Morphology on Modulation of Carbohydrate-Protein Interactions
Citation ChemMedChem.
Publisher Wiley
URI <https://doi.org/10.1002/cmdc.202300262>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8127>
Date of Publication 2023-07

Author(s) ROY, NAVEEN J.; Save, Shreyada N.; SHARMA, VIRENDER KUMAR; ABRAHAM, BENCHAMIN; KUTTANAMKUZHI, ABHIJITH; Sharma, Shilpy; LAHIRI, MAYURIKA; TALUKDAR, PINAKI
Title NAD(P)H:Quinone Acceptor Oxidoreductase 1 (NQO1) Activatable Salicylamide H⁺/Cl⁻ Transporters
Citation Chemistry—A European Journal.
Publisher Wiley
URI <https://doi.org/10.1002/chem.202301412>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8158>
Date of Publication 2023-06

Author(s) SAURABH, SATYAM; MOLLIK, SAMRAJ; MORE, YOGESHWAR D.; Banerjee, Abhik; FAJAL, SAHEL; Kumar, Nikhil; Shirolkar, Mandar M.; OGALE, SATISHCHANDRA B.; GHOSH, SUJIT K.
Title Covalent Organic Framework Featuring High Iodine Uptake for Li-Ion Battery: Unlocking the Potential of Hazardous Waste
Citation ACS Materials Letters
Publisher American Chemical Society
URI <https://doi.org/10.1021/acsmaterialslett.3c00443>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8149>
Date of Publication 2023-08

Author(s) Skrabalak, Sara E. E.; VAIDHYANATHAN, RAMANATHAN
Title The Chemistry of Metal Organic Framework Materials
Citation Chemistry of Materials, 35(15), 5713-5722.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.chemmater.3c01729>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8154>
Date of Publication 2023-08

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Author(s) SHAIKH, JAVED Y.; BHOWMICK, ANINDITA; CHATTERJEE, ABHIJIT; THOMBARE, NITIN A.; BHAT, RAMAKRISHNA G.

Title Transient Directing Group Enabled C3-(sp²)-H Alkenylation of Five Membered Heterocyclic Aldehydes: An Access to Mechanochromic Luminogen

Citation Advanced Synthesis & Catalysis.

Publisher Wiley

URI <https://doi.org/10.1002/adsc.202300528>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8132>

Date of Publication 2023-07

Author(s) SHINDE, APARNA; RAJPUT, PARIKSHIT KUMAR; MAKHIJA, URMILA; TANWAR, RITEEKA; MANDAL, PANKAJ; NAG, ANGSHUMAN

Title Emissive Dark Excitons in Monoclinic Two-Dimensional Hybrid Lead Iodide Perovskites

Citation Nano Letters, 23(15), 6985-6993.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acs.nanolett.3c01627>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8125>

Date of Publication 2023-08

Author(s) SAHOO, PADMINI; CHIBDE, PURVA; DAS, SATYABRATA; Banerjee, Subhrashis; Mali, Bhupendra P.; Vanka, Kumar; Gonnade, Rajesh G.; Yildiz, Cem. B.; MAJUMDAR, MOUMITA

Title A Zwitterionic Tetrastanna(II) Cyclic Crown

Citation European Journal of Inorganic Chemistry.

Publisher Wiley

URI <https://doi.org/10.1002/ejic.202300249>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8168>

Date of Publication 2023-08

Author(s) Slater, Jeffrey W.; SIL, DEBANGSU et al.

Title Synergistic Binding of the Halide and Cationic Prime Substrate of L-Lysine 4-Chlorinase, BesD, in Both Ferrous and Ferryl States

Citation Biochemistry, 62(16), 2480-2491.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acs.biochem.3c00248>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8161>

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EARTH AND CLIMATE SCIENCE

Journal Article

Author(s) CHAUBEY, D. K.; RAI, S. S.; MULLICK, N.; Das, R.
Title Lithosphere structure beneath the eastern Dharwar craton kimberlite field, India, inferred from joint inversion of surface wave dispersion and receiver function data
Citation Precambrian Research, 394, 107112.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.precamres.2023.107112>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8121>
Date of Publication 2023-08

Author(s) MANAGAVE, SHREYAS; Huang, Yongsong; Sutra, Jean-Pierre; Anupama, Krishnamurthy; Prasad, Srinivasan
Title Holocene precipitation hydrogen isotopic values on Nilgiri Plateau (southern India) suggest a combined effect of precipitation amount and transport paths
Citation Holocene
Publisher Sage
URI <https://doi.org/10.1177/0959683623118311>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8130>
Date of Publication 2023-08

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HUMANITIES AND SOCIAL SCIENCES

Preprint

Author(s) Kanade, Radhika; Lohakare, Kiran; Bhadbhade, Neha; Joy, K. J.; THOMAS, BEJOY. K.; Martin, Juliette; Willaarts, Bárbara Anna

Title Situational Analysis of the Upper Bhima sub-basin in the context of the Water-Food-Biodiversity Nexus

Citation Zenodo

Publisher Zenodo

URI <https://doi.org/10.5281/zenodo.8255959>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8145>

Date of Publication 2023-07

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MATHEMATICS

Journal Article

Author(s) Bhar, Suprio; Biswas, Imran H.; KHAN, SAIBAL; Vallet, Guy
Title Kolmogorov continuity and stability of sample paths of entropy solutions of stochastic conservation laws
Citation Journal of Hyperbolic Differential Equations, 20(02), 277-348 (2023).
Publisher World Scientific Publishing Co Pte Ltd
URI <https://doi.org/10.1142/S0219891623500091>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8162>
Date of Publication 2023-08

Author(s) GUPTA, PARUL; KAUR, YASHPREET; SINGH, ANUPAM
Title Splitting of differential quaternion algebras
Citation Journal of Algebra, 633, 43-55.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.jalgebra.2023.06.022>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8123>
Date of Publication 2023-11

Author(s) KALELKAR, TEJAS; NAIR, RAMYA
Title Essential surfaces in Seifert fiber spaces with singular surfaces
Citation Topology and its Applications, 337, 108627.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.topol.2023.108627>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8136>
Date of Publication 2023-09

Author(s) Kundu, Rijubrata; Naik, Tushar Kanta; SINGH, ANUPAM
Title Nilpotent Lie algebras with two centralizer dimensions over a finite field
Citation Journal of Algebra, 633, 362-388.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.jalgebra.2023.06.013>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8166>
Date of Publication 2023-11

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Author(s) Mehta, Umang; Minwalla, Shiraz; Patel, Chintan; Prakash, Shiroman; SHARMA, KARTIK
Title Crossing symmetry in matter Chern-Simons theories at finite N and k.
Citation Advances in Theoretical and Mathematical Physics, 27(01), 193-310.
Publisher International Press of Boston, Inc.
URI <https://www.intlpress.com>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8167>
Date of Publication 2023

Author(s) Noel, Jonathan A.; RANGANATHAN, ARJUN
Title On the Running Time of Hypergraph Bootstrap Percolation
Citation Electronic Journal of Combinatorics, 30(02).
Publisher Electronic Journal of Combinatorics
URI <https://doi.org/10.37236/11307>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8160>
Date of Publication 2023-06

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PHYSICS

Journal Article

Author(s) ANANTH, SUDARSHAN; Majumdar, Sucheta
Title BMS symmetry in gravity: Front form versus Instant form
Citation International Journal of Modern Physics D.
Publisher World Scientific Publishing Co Pte Ltd.
URI <https://doi.org/10.1142/S0218271823420014>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8140>
Date of Publication 2023-07

Author(s) BHAT, BHAGYASHRI DEVARU
Title Rashba spin-splitting in Janus SnXY/WXY (X, Y = S, Se, Te; X ≠ Y) heterostructures
Citation Journal of Physics: Condensed Matter, 35(43).
Publisher IOP Publishing
URI <https://doi.org/10.1088/1361-648X/ace8e4>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8141>
Date of Publication 2023-10

Author(s) BISWAS, KORAK; PATEL, KUSHAL; MAURYA, S. SAGAR; DUTTA, PRANAB; RAPOL, UMAKANT D.
Title Machine-learning-based automated loading of strontium isotopes into magneto-optical trap
Citation AIP Advances 13(07), 075313.
Publisher AIP Publishing
URI <https://doi.org/10.1063/5.0145844>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8119>
Date of Publication 2023-07

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Author(s) CMS Collaboration; Tumasyan, A.; ALPANA, K.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Precision measurement of the Z boson invisible width in pp collisions at $\sqrt{s} = 13$ TeV

Citation Physics Letters B, 842, 137563.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.physletb.2022.137563>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8138>

Date of Publication 2023-07

Author(s) CMS Collaboration; Tumasyan, A.; ALPANA, K.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Observation of electroweak W^+W^- pair production in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV

Citation Physics Letters B, 841, 137495.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.physletb.2022.137495>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8137>

Date of Publication 2023-06

Author(s) CMS Collaboration; Tumasyan, A.; ALPANA, K.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Search for electroweak production of charginos and neutralinos at $\sqrt{s} = 13$ TeV in final states containing hadronic decays of WW, WZ, or WH and missing transverse momentum

Citation Physics Letters B, 842, 137460.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.physletb.2022.137460>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8139>

Date of Publication 2023-07

Author(s) CMS Collaboration; Tumasyan, A.; ALPANA, A.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Search for Higgs boson decays into Z and J/ψ and for Higgs and Z boson decays into J/ψ or Y pairs in pp collisions at $\sqrt{s} = 13$ TeV

Citation Physics Letters B, 842,137534.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.physletb.2022.137534>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8155>

Date of Publication 2023-07

Author(s) CMS Collaboration; Tumasyan, A.; ALPANA, A.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Measurement of the B^0_s & RARR; p. plus p.- decay properties and search for the B^0 & RARR; p. plus p.- decay in proton-proton collisions at $\sqrt{s} = 13$ TeV

Citation Physics Letters B, 842,137955.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.physletb.2023.137955>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8150>

Date of Publication 2023-07

Author(s) DESWAL, SWATI; PANDAY, RISHUKUMAR; Naphade, Dipti R.; Cazade, Pierre-Andre; Guerin, Sarah; Zareba, Jan K.; Steiner, Alexander; OGALE, SATISHCHANDRA; Anthopoulos, Thomas D.; BOOMISHANKAR, RAMAMOORTHY

Title Design and Piezoelectric Energy Harvesting Properties of a Ferroelectric Cyclophosphazene Salt

Citation Small.

Publisher Wiley

URI <https://doi.org/10.1002/sml.202300792>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8122>

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Author(s) GHOSH, DIPTIMOY; PANCHAL, KUSHAN; ULLAH, FARMAN
Title Mixed graviton and scalar bispectra in the EFT of inflation: Soft limits and Boostless Bootstrap
Citation Journal of High Energy Physics, 2023(07), 233.
Publisher Springer Nature
URI [https://doi.org/10.1007/JHEP07\(2023\)233](https://doi.org/10.1007/JHEP07(2023)233)
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8151>
Date of Publication 2023-07

Author(s) JAIN, SACHIN; MEHTA, ABHISHEK
Title 4D flat-space scattering amplitude/CFT3 correlator correspondence revisited
Citation Nuclear Physics B, 991, 116193.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.nuclphysb.2023.116193>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8152>
Date of Publication 2023-06

Author(s) JOSE, SANDRA M.; KOMAL SAH,; NATH, REJISH
Title Patterns, spin-spin correlations, and competing instabilities in driven quasi-two-dimensional spin-1 Bose-Einstein condensates
Citation Physical Review A, 108(02), 023308.
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevA.108.023308>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8135>
Date of Publication 2023-08

Author(s) Kudo, Koji; Sharma, A.; SREEJITH, G. J.; Jain, J. K.
Title Candidate local parent Hamiltonian for the 3/7 fractional quantum Hall effect
Citation Physical Review B, 108(03), 085130
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevB.108.085130>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8148>
Date of Publication 2023-08

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Author(s) MANNA, SANDIPAN; SREEJITH, G. J.
Title Thermal Drude weight in an integrable chiral clock model
Citation Physical Review B, 108(05), 054304.
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevB.108.054304>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8129>
Date of Publication 2023-08

Author(s) NECHIYIL, DIVYA; GOKUL, M. A.; SHUKLA, ASHUTOSH; KUMAR, G. V. PAVAN; RAHMAN, ATIKUR
Title Strain-enabled defect migration and defect activation in monolayer MoS₂
Citation 2D Materials, 10(04).
Publisher IOP Publishing
URI <https://doi.org/10.1088/2053-1583/aceb74>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8157>
Date of Publication 2023-10

Author(s) PAL, RAPTI; GHOSH, PRASENJIT
Title C-Vacancy Mediated Methane Activation and C-C Coupling on TiC(001) Surfaces: A First-Principles Investigation
Citation Journal of Physical Chemistry C, 127(33), 16422-16432.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.jpcc.3c03873>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8153>
Date of Publication 2023-08

Author(s) PANCHAL, ANKUR; Rajasekaran, G.; Srivastava, Rahul
Title Can leptonic mixing matrix have a Wolfenstein form?
Citation Journal of High Energy Physics, 2023(07).
Publisher Springer Nature
URI [https://doi.org/10.1007/JHEP07\(2023\)151](https://doi.org/10.1007/JHEP07(2023)151)
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8143>
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Author(s) Rosalin, M.; TELANG, PRACHI; SINGH, SURJEET; Muthu, D. V. S.; Sood, A. K.
Title Raman signatures of quadratic band touching state and strong spin-phonon coupling in pyrochlore iridates (Sm_{1-x}Bi_x)₂Ir₂O₇
Citation Physical Review B, 108(03), 035133.
Publisher American Physical Society
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