DIPANKAR CHAKRABARTI[1]

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Date of Birth: December 16, 1974.
Sex: Male **Marital status:** Married **Nationality:** Indian

Professional Experience:

• **Dec, 2019 - present: Professor**, Department of Physics, Indian Institute of Technology Kanpur, Kanpur, India.
• **Dec, 2014 - Dec, 2019: Associate Professor**, Department of Physics, Indian Institute of Technology Kanpur, Kanpur, India.
• **Dec, 2008 - Dec, 2014: Assistant Professor**, Department of Physics, Indian Institute of Technology Kanpur, Kanpur, India.
• **2007- 2008: Postdoctoral Research Associate (Marie-Curie Fellow)**, Department of Physics, Swansea University, UK.
• **2006-2007: Postdoctoral Research Associate(Alexander von Humboldt fellow)**, Department of Physics, Regensburg University, Germany.
• **2004-2006: Postdoctoral Research Associate**, Department of Physics, University of Florida, USA.
• **1998-2004: Research Fellow**, Saha Institute of Nuclear Physics, Kolkata.

Academic Qualifications:

•**2004: Ph.D**, Jadavpur University.
Thesis Title: Non-perturbative studies in Quantum Chromodynamics.
Thesis Supervisor: Prof. A. Harindranath.
• **1997-1998: Post M. Sc.**, Saha Institute of Nuclear Physics, Kolkata.
• **1997: M. Sc. (Phy)**, University of Calcutta (marks obtained: 82.0%, rank: 1)
specialization: High Energy Physics.
• **1995: B. Sc. (Phy)**, University of Calcutta (marks obtained: 73.4%, rank: 3)

Current fields of research: Light-front Field Theory, Lattice Gauge Theory, light-front holographic QCD.

Awards/Scholarships:

♣ Awarded **Marie-Curie Fellowship (2006)** by European Union for postdoctoral research at

[1]Last updated August 31, 2020

Swansea University, UK.
♣ Awarded **Alexander von Humboldt Fellowship (2006)**(also in 2004) for postdoctoral research at Regensburg University, Germany.
♣ Awarded **Giulio Racah diploma (2002)** on the basis of performance in the International School of Subnuclear Physics held at Erice, Italy.
♣ Qualified **National Eligibility Test (NET), (1996)** and was awarded Junior research fellowship in Physical Sciences under CSIR-fellowship scheme.
♣ Awarded **Jotindranath Mitra Scholarship (1995)** on the basis of performance in B.Sc. Examination, Calcutta University.
♣ Awarded **National Scholarship (1995)** on the basis of B. Sc. Examination.
♣ Awarded **National Scholarship (1990)** on the basis of Madhyamik Examination.

Refereed articles for the research journals:

• Physical Review D • Annals of Physics • Few Body Systems
• Pramana • European Journal of Physics A

Ph.d thesis examination:

• Thesis by Mariyah Siddiqah, Department of Physis, Aligarh Muslim University.
• Thesis by Abhisek Chowdhury, Saha Institute of Nuclear physics.
• Thesis by Sangem Rajesh, IIT Mumbai.

Courses taught in IITK:

• PHY781(*High Energy Physics-II*),
• PHY680 (*Particle Physics*),
• PHY681(*Quantum Field Theory*),
• PHY526A (*Nuclear and Particle Physics*)
• PHY431(*Quantum Mechanics-I*),
• PHY432 (*Quantum Mechanics-II*),
• PHY103A,PHY103(R) (*Classical Electrodynamics*)
• Physics Prep Course.
• Served as instructor-in-charge for Project courses: PHY599/699, PHY501/502
• Served in the project evaluation committe for: PHY 555/556,PHY563/568, PHY599/699, PHY501/502

• Received **Letters of commandation** for exceptional teaching in
PHY432 (2010-11, Semester-II),
PHY681 (2018-19, Semester-I).

Conference organisation:

• **Convenor of LOC**, *High Energy Physics Conference* (in the memory of Prof. S.D Joglekar), IITK, 17-19 February, 2011.
•**Member of LOC**, *Workshop on High Energy Physics Phenomenology (WHEPP-XIV)*,IITK, 4-13 December, 2015.
• **Member of NOC**, *Frontiers in Light Front Hadron Physics: Theory and Experiment (Light Cone 2017)*, Mumbai, 18-22 September, 2017.

Administrative Services:

Oct, 2018 - till date: Convenor, Department Post Graduate committe(DPGC).

Nov, 2018 - July, 2019: Convenor, High Energy Physics Group
May 2016 - June, 2018: Convenor, High Energy Physics Group
Oct. 2016 - Sept. 2018: Member of DPGC.
2015-Sept., 2016: Member of DUGC
2015-April, 2016: In charge, physice department computers
2014-2015: Convenor, High Energy Physics Group
2013-2015: Member of DPGC
2010-2012: IITK coordinator of Theoretical Physics Seminar Circuit(TPSC).
2009-2012: Seminar coordinator, HEP group.

Ph.D. thesis supervision:

a. Present students:

1. Abhijeet Kishore[joined in 2019]
2. Bheemsehan Gurjar[joined in 2019]
3. Ankur Singha [joined in 2018,]
4. Poonam Choudhary [joined in 2018]

b. Past students:

1. Tanmay Maji (thesis defended in June, 2018)
   Thesis Title: *Transverse Structure of Proton and azimuthal Spin Asymmetries in SIDIS Processes.*
   Current position: Postdoc, Fudan University, Shanghai, China.

2. Jishnu Goswami (thesis defended in Dec, 2017)
   Thesis Title: *Numerical Studies of Borici-Creutz Fermions.*
   Current Status: Postdoc, Bielefeld Univ, Germany.

3. Chandan Mondal (thesis defended in Sept, 2016)
   Thesis Title: *Nucleon Structure in Light Front Quark Models in AdS/QCD.*
   Current status: Assistant Professor, Institute of Modern Physics, Chinese Academy of Science(CAS), Lanzhau, China.

M.Sc. project supervision:

1. Poonam Choudhary (2017-2018): *Berry phase for arbitrary spins.*

2. Pratik Nandy (2016-2017): *Transverse momentum dependent parton distributions.*

3. Rohit Swarnkar(2014-2015): *Meson structure in light front holographic QCD.*

4. Abhishek Gupta(2014-2015): *Nucleon electromagnetic form factors from light front holography.*

5. Krishnendu Mondal(2013-2014)): *Chiral symmetry on a space time lattice.*

6. Subhadeep Pal (2012-2013): *Similarity renormalization and positronium bound state in (2+1)D light front QED.*

7. Prasenjit Sanyal(2012-2013): *Parton distribution functions (PDFs) and generalized parton distribution functions(GPDs) in a QED model.*

M.Sc.-Ph.D dual degree project supervision:

1. Chandan Mondal: *Lattice gauge theory and chiral fermion formulation.*
2. Tanmay Maji: *Search for standard model Higgs and precssion measurement of the Higgs coupling.*
3. Harishyam Kumar: *Chiral Perturbation theory.*

Symposia/Conferences/Schools:

• Light Cone-2017 (Frontiers in Light Front hadron Physics: Theory and Experiment), Mumbai, India, Septembet 18-22, 2017.
• Workshop on High Energy Physics Phenomenology (WHEPP-XIV), IIT Kanpur, India, December 4-13, 2015.
• Light Cone-2015, INFN-LNF, Frascati, Italy, September 21-25, 2015.
• XXI DAE-BRNS High Energy Physics Symposium, IITG, Guwahati, India, December 8-12, 2014.
• International Workshop on Frontiers of QCD, IITB, Mumbai, India, December 2-5, 2014.
• International Conference on Nuclear Theory in Supercomputing Era-2013 (NTSE-2013), Iowa State Univ, Ames, USA, May 13-17, 2013.
• Light Cone-2012 (International Conference on Light Cone Physics: Hadron and Particle Physics), Delhi, India, 10-15 Dec, 2012.
• Quarks, Leptons and LHC, IIT Bombay, India, 28-30 Aug, 2011.
• VIIIth Condense Matter physics Workshop, Kanpur, India, 20-22 Feb, 2009.
• XXV International Symposium on Lattice Field Theory (Lattice 2007), Regensburg, Germany, 2007.
• Light Cone-2006 (Light-Cone QCD and Non-perturbative Hadron Physics), Minneapolis, USA, 2006.
• UF-FSU Symposium on High Energy Phenomenology, Gainesville, USA, 2005.
• UF-FSU Symposium on High Energy Phenomenology, Tallahasse, USA, 2004.
• International Workshop on Quantum Chromodynamics, Kanpur, India, 2002.
• International School of Subnuclear Physics, Erice, Italy, 2002.
• Workshop on High Energy physics Phenomenology-VII, Allahabad, India, 2002.
• XV SERC School on High energy Physics, calcutta, India, 2000.
• XIV SERC School on High energy Physics, Mysore, India, 1999.

Chaired a session in:

(i) XXI DAE-BRNS High Energy Physics Symposium, 2014
(ii) International conference on light cone physics, Light Cone-2017.

Academic visits:

• Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou, China, June 15 -29, 2019.
• Bogoliubov Laboratory of Theoretical Physics, Joint Institute of Nuclear Research, Dubna, Russia,

May 29-June 12, 2015.
• Department of Physics and Astronomy, Iowa State University, Ames, USA, May 09 - June 14, 2013.
• Department of Physics, Vrije university, Amsterdam, Netherlands, September 5 - 30, 2006.
• Department of Physics and Astronomy, Iowa State University, Ames, USA, July 31-August 27, 2002, and June 18-August 14, 2003.
• Physics Department, Ohio State University, USA, August 17-24, 2003.

Talks/Seminars:

1. *TMDs and spin asymmetries in a light front quark-diquark model of the proton*
   → Department of Physics, IIT Mumbai, September 17, 2019.
2. *Proton structure: TMDs, Spin asymmetries and all that*
   → Colloquium, Physics Department, IITK, September 6, 2019.
3. *Understanding the internal structure of the proton*
   → Institute of Modern Physics, Lanzhou, China, June 19, 2019.
4. *Lattice Gauge Theory with Minimally Doubled Fermion*
   → Colloquium, Physics Department, IITK, February 15,2019.
5. *Mixed action QCD with minimally doubled fermion*
   → Saha Institute of Nuclear physics, Kolkata, India, December 20, 2018.
6. *Azimuthal spin asymmetries in SIDIS*
   → Light Cone-2017, Mumbai, India, September 20,2017.
7. *Gravational form factors and transverse spin sum rule in a quark-diquark model in AdS/QCD*
   → Light Cone-2015, Frascati, Italy, Septemeber 21, 2015.
8. *Investigation of nucleon structure in light front AdS/QCD*
   → High Energy Physics Seminar, JINR, Dubna, Russia, June 10, 2015.
9. *Nucleon form factors in light front holographic QCD*
   → XXI DAE-BRNS HEP Symposium, IITG, Guwahati, India, December 2014.
10. *Nucleon structure in light front AdS/QCD*
    → International Workshop on Frontiers of QCD, IITB, Mumbai, India, December, 2014.
11. *Generalized parton distributions for the proton*
    → International Conference on Nuclear Theory in Supercomputing Era-2013, Ames, USA, May 2013.
12. *Generalized parton distributions in position space*
    → Light Cone 2012, Delhi, India, December 2012.
13. *A Study of Generalized Parton Distributions in position space*
    → Quarks, Leptons and LHC, IIT Bombay, Mumbai, India, August 30, 2011.

14. *Field theory of Graphene Fermions*
→ VIII Condense Matter Workshop, Kanpur, India, February, 2009.

15. *Diffraction Pattern in Deeply Virtual Compton Scattering*
→ Physics Department, Swansea University, Swansea, UK, January, 2008.

16. *An Introduction to Light-Front Transverse Lattice and QCD bound state problem*
→ University of Regensburg, Regensburg, Germany, November, 2006.

17. *Light Front Wave Functions and Deeply Virtual Compton Scattering in Longitudinal Coordinate space*
→ Vrije University, Amsterdam, Netherlands, September, 2006.

18. *Glue-Glue Scattering on the lightcone worldsheet: helicity violating case*
→ Light Cone-2006, Minneapolis, USA, May 2006.

19. *Scattering of glue by glue on the lightcone worldsheet*
→ Theory Division, Saha Institute of Nuclear Physics, calcutta, India, October, 2005.
→ Department of Physics, Indian Institute of Technology Kanpur, Kanpur, India, October, 2005.
→Department of Physics, Indian Institute of Technology Kharagpur, Kharagpur, India, October, 2005.

20. *Helicity violating glue-glue scattering on the lightcone worldsheet*
→UF-FSU Symposium on High Energy Phenomenology, Gainesville, USA, November, 2005.

21. *Impact parameter dependent parton distributions for a relativistic composite system*
→ UF-FSU Symposium on High Energy Phenomenology, Tallahassee, USA, December, 2004.

22. *Kinks in (1+1)D ϕ^4 theory*
→ Department of Physics, University of Florida, Gainesville, USA, November 2004.

23. *A study of meson bound states in transverse lattice QCD using different fermion formulations*
→ T-N-T colloquium, department of Physics, North Carolina State University, Raleigh, USA, August 2003.
→ Department of Physics, Ohio State University, Columbus, USA, August 2003.

24. *Topological excitations in two dimensional scalar field theory*
→ Physics department, University of Minnesota-Duluth, Dulluth, USA, August 2003.
→ Department of Physics and Astronomy, Iowa State University, Ames, USA, August 2003.

25. *Mesons in (2+1)D light-front QCD using similarity renormalization approach*
→ Institute of Mathematical Sciences, Chennai, India, February 2003.

26. *Formulating fermions on a light-front transverse lattice*
→ Center for Theoretical Studied, Indian Institute of Science, Bangalore, India, February 2003.
→ Tata Institute of Fundamental Research, Mumbai, India, February 2003.

27. *Fermions in light-front transverse lattice QCD*
→ QCD02, Kanpur, India, November 2002.

28. *Free fermions on a transverse lattice*
    → (New Talents talk), International School of Subnuclear Physics, Erice, Italy, September 2002.

29. *Transverse lattice QCD and HQET*
    → QCD working group talk, WHEPP-VII, Allahabad, India, January 2002.

LIST OF PUBLICATIONS

A. In journals

1. *Proton structure from a light-front Hamiltonian*
   C. Mondal, S. Xu, J. Lan, X. Zhao, Y. Li, D. Chakrabarti and J. P. Vary,
   Phys. Rev. D 102, 016008 (2020).
2. *Sivers and Boer-Mulders GTMDs in Light-front Holographic Quark-diquark Model,*
   D. Chakrabarti, N. Kumar, T. Maji and A. Mukherjee,
   Eur. Phys. J. Plus 135, 496 (2020).
3. *"Sivers and cos2ϕ asymmetries in semi-inclusive deep inelastic scattering in light-front holographic model"*
   T. Maji, D. Chakrabarti, and A. Mukherjee
   Phys. Rev. D 97, 014016 (2018).(Impact Factor: 4.394)
4. *"Model predictions for azimuthal spin asymmetries for HERMES and COMPASS kinematics"*
   T. Maji, D. Chakrabarti and O. V. Teryaev,
   Phys. Rev. D 96, 114023 (2017). (Impact Factor: 4.394)
5. *"Mixed action with Borici-Creutz fermions on staggered sea"*
   S. Basak, D. Chakrabarti, J. Goswami
   Phys. Rev. D 96, 07450 (2017).(Impact Factor: 4.394)
6. *"Deuteron transverse densities in holographic QCD,"*
   C. Mondal, D. Chakrabarti and X. Zhao,
   Eur. Phys. J. A 53, no. 5, 106 (2017).(Impact Factor: 2.799)
7. *"Transverse structure of proton in a light-front quark-diquark model,"*
   T. Maji and D. Chakrabarti,
   Phys. Rev. D 95, 074009 (2017).(Impact Factor: 4.394)
8. *"Leading twist generalized parton distributions and spin densities in a proton"*
   T. Maji, C. Mondal and D. Chakrabarti
   Phys. Rev. D 96, 074009 (2017).(Impact Factor: 4.394)
9. *"Quark Wigner distributions and spin-spin correlations,"*
   D. Chakrabarti, T. Maji, C. Mondal and A. Mukherjee,
   Phys. Rev. D 95, 074028 (2017). (Impact Factor: 4.394)
10. *"Mass spectroscopy using Borici-Creutz fermion on 2D lattice"*
    J. Goswami, D. Chakrabarti and S. Basak
    Int. J. Mod. Phys. A 32, 1750059 (2017). (Impact Factor:1.597)
11. *"A light front quark-diquark model for the nucleons,"*
    T. Maji and D. Chakrabarti,
    Phys. Rev. D 94, 094020 (2016).(Impact Factor: 4.394)
12. *"Charge and longitudinal momentum distributions in transverse coordinate space,"*
    C. Mondal, N. Kumar, H. Dahiya and D. Chakrabarti,
    Phys. Rev. D 94, 074028 (2016). (Impact Factor: 4.394)
13. *"Nucleon to Δ transition form factors and empirical transverse charge densities,"*
    D. Chakrabarti and C. Mondal
    Eur. Phy. J. A 52, 285 (2016). (Impact Factor: 2.799)
14. *"Wigner distribution and orbital angular momentum of a proton"*
    D. Chakrabarti, T. Maji, C. Mondal and A. Mukherjee
    Eur. Phy. J. C 76, 409 (2016). (Impact Factor: 5.172)

15. *"Relating transverse structure of various parton distributions"*
T. Maji, C. Mondal, D. Chakrabarti and O. V. Teryaev
JHEP 1601, 165 (2016). (Impact Factor: 5.541)

16. *"Meson structure in light-front holographic QCD"*
Rohit Swarnkar and D. Chakrabarti
Phys. Rev. D 92, 074023 (2015).(Impact Factor: 4.394)

17. *"Chiral-odd generalized parton distributions for proton in a light-front quark-diquark model"*
D. Chakrabarti and C. Mondal
Phys. Rev. D 92, 074012 (2015).(Impact Factor: 4.394)

18. *"Gravitational form factors and transverse spin sum rule in a light front quark-diquark model in AdS/QCD,"*
D. Chakrabarti, C. Mondal and A. Mukherjee
Phys. Rev. D 91, 114026 (2015). (Impact Factor: 4.394)

19. *"Generalized parton distributions and transverse densities in a light front quark-diquark model for the nucleons"*
C. Mondal and D. Chakrabarti
Eur. Phy. J. C 75, 261 (2015).(Impact Factor: 5.172)

20. *"Gross-Neveu model with Borici-Creutz fermion"*
J. Goswami, D. Chakrabarti, S. Basak
Phys. Rev. D91, 014507(2015). (Impact Factor: 4.394)

21. *"Generalized parton distributions in a light front nonperturbative approach "*
D. Chakrabarti, X. Zhao, H. Honkanen, R. Manohar, P. Maris, J. P. Vary
Phys. Rev. D89, 116004 (2014).(Impact Factor: 4.394)

22. *"Transverse charge and magnetization densities in holographic QCD"*
D. Chakrabarti and C. Mondal
Eur. Phys. J. C 74, 2962 (2014).(Impact Factor: 5.172)

23. *"Nucleon and Flavor Form Factors in a Light Front Quark Model in AdS/QCD",*
D. Chakrabarti and C. Mondal
Eur. Phys. J. C 73, 2671 (2013).(Impact Factor: 5.172)

24. *"Generalized Parton Distributions For The Proton in AdS/QCD",*
D. Chakrabarti and C. Mondal
Phys. Rev. D88, 073006 (2013).

25. *"Generalized Parton Distributions for the Proton in Position Space : Non-Zero Skewness,"*
R. Manohar, A. Mukherjee, D. Chakrabarti
Phys. Rev. D83, 014004 (2011).

26. *"Generalized Parton Distributions of the Proton in Position Space: Zero Skewness,"*
D. Chakrabarti, R. Manohar, A. Mukherjee
Phys. Lett. B682, 428-434 (2010).(Impact Factor: 3.968)

27. *"Topological Aspects of Fermions on a Honeycomb Lattice"*
D. Chakrabarti, S. Hands and A. Rago
JHEP 0906, 060 (2009).

28. *"Chiral odd GPDs in transverse and longitudinal impact parameter spaces"*
D. Chakrabarti, R. Manohar and A. Mukherjee
Phys. Rev. D 79, 034006 (2009).

29. *"Hadron optics in three-dimensional invariant coordinate space from deeply virtual Compton scattering"*
S. J. Brodsky, D. Chakrabarti, A. Harindranath, A. Mukherjee and J. P. Vary
Phys. Rev. D 75, 014003 (2007).
30. *"Hadron optics: Diffraction patterns in deeply virtual Compton scattering"*
S. J. Brodsky, D. Chakrabarti, A. Harindranath, A. Mukherjee and J. P. Vary
Phys. Lett. B 641, 440 (2006).(Impact Factor: 3.968)
31. *"Scattering of glue by glue on the light-cone worldsheet. II: Helicity conserving amplitudes"*
D. Chakrabarti, J. Qiu and C. B. Thorn
Phys. Rev. D 74, 045018 (2006) [Erratum-ibid. D 76, 089901 (2007)].
32. *"Scattering of glue by glue on the light-cone worldsheet. I: Helicity non-conserving amplitudes"*
D. Chakrabarti, J. Qiu and C. B. Thorn
Phys. Rev. D 72, 065022 (2005).
33. *"Generalized parton distributions in the impact parameter space with non-zero skewedness"*
D. Chakrabarti and A. Mukherjee
Phys. Rev. D 72, 034013 (2005).
34. *"A transition in the spectrum of the topological sector of phi**4(2) theory at strong coupling"*
D. Chakrabarti, A. Harindranath and J. P. Vary
Phys. Rev. D 71, 125012 (2005).
35. *"Impact parameter dependent parton distributions for a composite relativistic system"*
D. Chakrabarti and A. Mukherjee
Phys. Rev. D 71, 014038 (2005).
36. *"Ab initio results for the broken phase of scalar light front field theory"*
D. Chakrabarti, A. Harindranath, L. Martinovic, G. B. Pivovarov and J. P. Vary
Phys. Lett. B 617, 92 (2005).
37. *"Kinks in discrete light cone quantization"*
D. Chakrabarti, A. Harindranath, L. Martinovic and J. P. Vary
Phys. Lett. B 582, 196 (2004).
38. *"A study of q anti-q states in transverse lattice QCD using alternative fermion formulations"*
D. Chakrabarti, A. Harindranath and J. P. Vary
Phys. Rev. D 69, 034502 (2004).
39. *"Fermions on the light front transverse lattice"*
D. Chakrabarti, A. K. De and A. Harindranath
Phys. Rev. D 67, 076004 (2003).
40. *"Mesons in (2+1) dimensional light front QCD. II: Similarity renormalization approach"*
D. Chakrabarti and A. Harindranath
Phys. Rev. D 65, 045001 (2002).
41. *"Mesons in light front QCD(2+1): Investigation of a Bloch effective Hamiltonian"*
D. Chakrabarti and A. Harindranath
Phys. Rev. D 64, 105002 (2001).
42. *"Quark transversity distribution in perturbative QCD: Light-front Hamiltonian approach"*
A. Mukherjee and D. Chakrabarti
Phys. Lett. B 506, 283 (2001).
43. *"A numerical experiment in DLCQ: Microcausality, continuum limit and all that"*
D. Chakrabarti, A. Mukherjee, R. Kundu and A. Harindranath
Phys. Lett. B 480, 409 (2000).

B. Conference Proceedings

1. *'Basis light-front quantization approach to nucleon,"*
   C. Mondal, S. Xu, J. Lan, X. Zhao, Y. Li, D. Chakrabarti and J. P. Vary,
   PoS **LC2019**, 067 (2020).
2. *"Lattice QCD with mixed action − Borici-Creutz valence quark on staggered sea"*
   S. Basak, J. Goswami and D. Chakrabarti,
   EPJ Web Conf. 175, 05001 (2018).
3. *"Leading Twist TMDs in a Light-Front Quark–Diquark Model for Proton"*
   T. Maji and D. Chakrabarti,
   Few Body Syst. 59, no. 3, 41 (2018).
4. *"Leading Twist GPDs and Transverse Spin Densities in a Proton"*
   C. Mondal, T. Maji, D. Chakrabarti and X. Zhao,
   Few Body Syst. 59, no. 3, 16 (2018).
5. *"Azimuthal Spin Asymmetries in SIDIS"*
   D. Chakrabarti, T. Maji, A. Mukherjee and O. V. Teryaev,
   Few Body Syst. 59, no. 2, 12 (2018).
6. *"Proton structure in a light-front quark-diquark model: Collins asymmetry"*
   Tanmay Maji, Dipankar Chakrabarti
   PoS DIS2017, 193(2018).
7. *"Borici-Creutz fermions on 2-dim lattice"*
   J. Goswami, D. Chakrabarti, S. Basak
   PoS LATTICE2016, 310 (2017).
8. *" A Comparative Study of Nucleon Structure in Light-Front Quark Models in AdS/QCD"*
   C. Mondal and D. Chakrabarti
   Few-Body Syst. 57, 723 (2016).
9. *"On Gravitational Form Factors and Transverse Spin Sum Rule"*
   D. Chakrabarti, C. Mondal and A. Mukherjee
   Few-Body Syst. 57, 437 (2016).
10. *"Chiral Symmetry Breaking in the Lattice Gross-Neveu Model with the Borici-Creutz Fermion"*
    J. Goswami, D. Chakrabarti, S. Basak
    Springer Proc. Phys. 174, 93 (2016).
11. *"Nucleon Structure in AdS/QCD"*
    D. Chakrabarti and C. Mondal
    Springer Proc. Phys. 174, 43 (2016).
12. *"A Study of Generalized Parton Distributions For the Proton in AdS/QCD"*
    D. Chakrabarti and C. Mondal
    Published in the conference proceedings of **NTSE-2013** held in May, 2013, Ames, USA.
13. *" A Study of Generalized Parton Distributions in Position Space"*
    D. Chakrabarti, R. Manohar and A. Mukherjee
    Nucl. Phys. B (Proc. Suppl.) 251-252, 99 (2014).
14. *"Generalized Parton Distributions for the Proton in Position Space"*
    R. Manohar, A. Mukherjee, D. Chakrabarti
    J. Phys. Conf. Ser. 295, 012071 (2011).
15. *"Chiral Odd Generalized Parton Distributions in Position Space"*
    A. Mukherjee, D. Chakrabarti, R. Manohar
    AIP Conf. Proc. 1149, 533-538 (2009).

16. *"B meson excitations with chirally improved light quarks"*
    T. Burch, D. Chakrabarti, C. Hagen, T. Maurer, A. Schafer, C. B. Lang and M. Limmer
    PoS LAT2007, 091 (2007).
17. *"Coherent states and spontaneous symmetry breaking in light front scalar field theory"*
    J. P. Vary, D. Chakrabarti, A. Harindranath, R. Lloyd, L. Martinovic and J. R. Spence
    Nucl. Phys. Proc. Suppl. 161, 223 (2006).
18. *"Impact parameter dependent parton distributions for a relativistic composite system"*
    D. Chakrabarti and A. Mukherjee
    Few-Body Syst. 36, 205 (2005).
19. *"Fermions In Light Front Transverse Lattice Quantum Chromodynamics"*
    D. Chakrabarti, A. K. De and A. Harindranath
    Pramana 61, 967 (2003).