

Pallavi Kalikotay

Assistant Professor
Department of Physics
Kazi Nazrul University
Asansol - 713340.

Email: orionpallavi@gmail.com

Alternate Email:

pallavi.kalikotay@knu.ac.in

Orcid id: <https://orcid.org/0000-0003-0395-1445>



Education

B.Sc (Physics) Sri Sathya Sai Institute of Higher Learning, 2014

M.Sc (Physics) Visva-Bharati, 2016

PhD (Science) (pursuing)

Field of Interest

Transport properties of hot and dense matter, Quantum field theory, Thermal field theory, Effects of background magnetic field in heavy ion collisions.

Teaching Experience

Quantum Mechanics – I (Semester I)

Nuclear and Particle Physics (Semester – III)

Digital Electronics (Semester – III)

Physics Lab-I (Semester – I)

Physics Lab – II (Semester -II)

Basic Physics and Applied physics courses (Diploma in Mining and Metallurgy, B.Tech in Mining and Metallurgy, School of Mines and Metallurgy, KNU)

Publications

1. Medium effects on Relaxation times and Transport coefficients of Pion-Kaon-Nucleon system,
Pallavi Kalikotay, Nilanjan Chaudhuri, Snigdha Ghosh, Sourav Sarkar,
Published in *DAE NP Proceedings* Vol. 63 (2018) 1004.

2. Dynamics of self-reinforcing matter-wave in gravito-optical surface trap,
Golam Ali Sekh and **Pallavi Kalikotay**
Chaos 29, 103112 (2019)
DOI: <https://doi.org/10.1063/1.5116328>
Impact factor – 2.643

3. Viscous coefficients and thermal conductivity of a πKN gas mixture in the medium
Pallavi Kalikotay¹, Nilanjan Chaudhuri^{2,4}, Snigdha Ghosh³, Utsab Gangopadhyaya^{2,4}, Sourav Sarkar^{2,4}

1 Department of Physics, Kazi Nazrul University, Asansol, West Bengal 713340, India

2 Variable Energy Cyclotron Centre, 1/AF Bidhannagar, Calcutta 700064, India

3 Saha Institute of Nuclear Physics, 1/AF Bidhannagar, Calcutta 700064, India

4 Homi Bhabha National Institute, Training School Complex, Anushaktinagar, Mumbai 400085, India

The European Physical Journal A volume 56, Article number: 79 (2020)

DOI: <https://doi.org/10.1140/epja/s10050-020-00074-3>

Citations: 4

Impact Factor: 3.043

4. Medium effects on the electrical and Hall conductivities of a hot and magnetized pion gas,
Pallavi Kalikotay¹, Snigdha Ghosh^{3,4}, Nilanjan Chaudhuri^{2,4}, Pradip Roy^{3,4}, and Sourav Sarkar^{2,4}

1 Department of Physics, Kazi Nazrul University, Asansol, West Bengal 713340, India

2 Variable Energy Cyclotron Centre, 1/AF Bidhannagar, Calcutta 700064, India

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4 Homi Bhabha National Institute, Training School Complex, Anushaktinagar, Mumbai 400085, India

Phys. Rev. D 102, 076007

DOI: <https://doi.org/10.1103/PhysRevD.102.076007>

Citations: 2

Impact factor: 5.296

5. Dynamics of QCD matter — current status
Pallavi Kalikotay et. al.
Int.J.Mod.Phys.E 30 (2021) 02, 2130001