

## INDIVIDUAL TEACHER'S PROFILE

- 1) Name: **Dr. Dipsikha Kalita**
- 2) Designation: **Assistant Professor**
- 3) Contact No. & Email id: **(+91) 94351-15960, dkalita93@gmail.com**
- 4) **Educational Qualifications:**

A)

Degree	Year	University	Specialization
M.Sc.	2000	Dibrugarh University	Advanced Quantum Mechanics
PhD	2014	Gauhati University	Nuclear Physics [In the field of Cosmic rays]

B) Title of the Thesis: **“Study of Extensive Air Showers using CORSIKA above Cosmic ray primary energy  $10^{17}$  eV.”**

5) **Teaching Experience in year(s):** 13 Years

6) **Area (s) of Interest:** Nuclear Physics, Mathematical Methods for physical sciences.

7) **Publication(s):** 09

### **Research Paper (s) (Refereed Journal) :**

- a. **Dipsikha Kalita** and Kalyanee Boruah Application of statistical method for determination of Primary Mass Composition of Cosmic Rays using simulated data, published in **Indian Journal of Physics, Vol. 87(3), pp 289-295, March 2013( ISSN: 0973-1458).**
- b. **Dipsikha Kalita** and Kalyanee Boruah, Study of Lateral distribution Parameters from simulation of HE Cosmic Ray EAS, published in **Proceeding of 32<sup>nd</sup> International Cosmic Ray Conference.**
- c. **Dipsikha Kalita** and Kalyanee Boruah Application of Monte Carlo Simulation in Cosmic Ray Physics, published in **HORIZON – a Journal of Physics, Vol. 1, pp 25-29, November2011(ISSN: 2250-0871)**
- d. **Dipsikha Kalita** and Kalyanee Boruah, A study of depth of shower maximum of simulated air shower longitudinal profile using statistical methods, published in **Nuclear Physics B (Proc. Suppl.), 212–213 (2011) 259–264(ISSN: 0920-5632).**

- e. **Dipsikha Kalita** and Kalyanee Boruah, Study of lateral distribution of EAS using CORSIKA code for different primary masses, published in **Exploring the Cosmos Proceedings of the Conference on Astrophysics and Astroparticle Physics held at NBU during Jan 27-28, 2011, (ISBN: 3844391657)**

**8) Conference/Seminar/Workshop/Symposium (Participation/Paper Presentation):**

- a. Centenary Seminar 2012: Discovery of Cosmic Rays, 6<sup>th</sup> August, 2012, Department of Physics, Deptt. of Physics, Gauhati University, Assam **(India)**.
- b. One day UGC SAP National Seminar on new Frontiers in Physics, 11th May, 2012, Department of Physics, Deptt. of Physics, Gauhati University, Assam **(India)**.
- c. Assam Science Society, 57th technical session, 16th March 2012 held at Deptt. of Physics, Gauhati University, Assam **(India)**.
- d. EXPLORING THE COSMOS: 100 years of Cosmic Ray Physics, A Conference on Astroparticle Physics & astrophysics, 15<sup>th</sup> to 16<sup>th</sup> December 2011, High Energy & Cosmic Ray Research Centre, university of North Bengal. **(India)**
- e. EXPLORING THE COSMOS: A National Conference on Relativistic astrophysics & Astroparticle Physics, 27<sup>th</sup> to 28<sup>th</sup> January 2011, High Energy & Cosmic Ray Research Centre, University of North Bengal. **(India)**
- f. PANE 2010, 7<sup>th</sup> National Conference on Physics, 5<sup>th</sup>-6<sup>th</sup> October, 2010, Department of Physics, Manipur University. **(India)**
- g. CRIS 2010: Cosmic Ray International Seminar "100 years of Cosmic Ray Physics: from pioneering experiments to physics in space" 13<sup>th</sup> to 17<sup>th</sup> September, 2010 held at Catania **(Italy)**.
- h. National Workshop on Simulation & data Analysis Techniques for High Energy Cosmic Ray Experiment, 23<sup>rd</sup> to 25<sup>th</sup>, 2009 held at Deptt. of Physics, Gauhati University, Assam **(India)**.

**9) Chapter in Book:**

- a. **Springer Proceeding in Physics**, XXI DAE-BRNS High Energy Physics Symposium Proceedings, Guwahati, India, December 8-12, 2014, pages 421-425, Ed. Bipul Bhuyan. ISBN: 978-3-319-25617-7(Print) 978-3-319-25619-1(Online)

**9) Professional Membership:**

<b>Name of Organization</b>	<b>Life Member/Annual</b>
Physics Academy of North East (PANE)	Life Member