



**Department of Physics**  
**Faculty of Science / University of Peradeniya**



**Dr. J.A.C.P. Jayalath**

*B.Sc. (Perad.), Ph.D. (Hampton, USA)*

**Senior Lecturer**

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**Higher Education Qualifications**

🎓 **PhD**

Hampton University, Hampton, Virginia

USA

(2010)

🎓 **BSc**

University of Peradeniya

Sri Lanka

(2001)

## Awards, Scholarships, Memberships & Fellowships



Nothing to show under this subheading !!!

## Positions Held



Senior Student Counselor, Faculty of Science, University of Peradeniya



Secretary, Curriculum Development Committee, Faculty of Science, University of Peradeniya



Board Member, Board of Study in Physics, Postgraduate Institute of Science, University of Peradeniya



Co-ordinator, M.Sc. programme in Medical Physics, Postgraduate Institute of Science, University of Peradeniya






Chairman, Curriculum Development Committee, Faculty of Science, University of Peradeniya



Academic Counselor, Faculty of Science, University of Peradeniya



## My Teachings

-  PH205: Thermal and Statistical Physics
-  PH370: Mathematical Methods in Physics
-  PH433: Nuclear and Reactor Physics

## Research Interests (Research Fields/ Projects)

Core research field lies in theoretical hadronic physics, and in particular major interest is in baryon phenomenology and applied nuclear physics.

## Ongoing Research and Projects

-  **Hadron phenomenology at different quark masses**
-  **Neutron activation analysis for material identification**

## Key Publications



Phys. Rev. - (2011)

Negative parity baryon decays in the  $1/N_c$  expansion,



Phys. Rev. - (2009)

Analysis of 56-plet Positive parity baryon decays in the  $1/N_c$  expansion,

## Conferences



Nothing to show under this subheading !!!

## My Publications

Please goto the website.

<https://sci.pdn.ac.lk/physics/staff/Chandana-Jayalath>