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**Educational Qualifications**

2023 : **Ph. D.** in Nuclear Physics Department of Physics, University of Calicut

Title “Evaporation residue measurements of Compound Nuclei in A~200 region”

2012: **M. Phil** Physics - Department of Physics, University of Calicut (A-Grade).

2012: Qualified **CSIR NET** (AIR: 53)

2008: **M. Sc** Physics – St. Joseph’s College Devagiri, Kozhikode (70.1 %).

**Teaching Experience**

**1/08/2022 – 30/03/2023 (6 Months)** : Worked as Assi. Professor in Physics in Malabar Christian College , Kozhikode.

**17/01/2022 – 30/03/2022 (3 months)** : Worked as Assi. Professor in Physics in Malabar Christian College , Kozhikode.

**17/10/2023- Cont..** : Worked as Assi. Professor in Physics in Dept. of Physics University of Calicut

**Publications:**

1. “ Role of positive Q-value Role of positive transfer Q-values in fusion cross-sections for  $^{18}\text{O}+^{182,184,186}\text{W}$  reactions”, **P. Jisha**, A. M. Vinodkumar, S. Sanila, K. Arjun, B.R.S Babu, J Gehlot, S. Nath, N. Madhavan, A. Parihari, A Vinayak, Amritraj Mahatoand A. C. Visakh, Phys. Rev. C **105**, 054614 (2022).
2. “Evaporation residue measurements of compound nuclei in the A~200 region”, **P. Jisha**, A. M. Vinodkumar, B. R. S. Babu, S. Nath, N. Madhavan, J. Gehlot, A. Jhingan, T. Banerjee, Ish Mukul, R. Dubey, N. Saneesh, K. M. Varier, E. Prasad, A. Shamlath, P. V. Laveen, and M. Shareef, Phys. Rev. C **101**, 024611 (2020).

3. "Fusion studies in  $^{35,37}\text{Cl}+^{181}\text{Ta}$  reactions via evaporation residue cross section measurements", P. V. Laveen, E. Prasad, N. Madhavan, A. K. Nasirov, J. Gehlot, S. Nath, G. Mandaglio, G. Giardina, A. M. Vinodkumar, M. Shareef, A. Shamlath, S. K. Duggi, P. Sandya Devi, Tathagata Banerjee, M. M. Hosamani, Khushboo, **P. Jisha**, Neeraj Kumar, Priya Sharma, and T. Varughese Phys. Rev. C **102**, 034613,2020
4. "Search for stabilizing effects of the Z=82 shell closure against fission", J. Gehlot, S. Nath, Tathagata Banerjee, Ish Mukul, R. Dubey, A. Shamlath, P. V. Laveen, M. Shareef, Md. Moin Shaikh, A. Jhingan, N. Madhavan, Tapan Rajbongshi, **P. Jisha**, and Santanu Pal, Phys. Rev. C **99**, 061601(R) (2019).
5. "Evaporation residue cross-section measurements for  $^{16}\text{O}+^{203,205}\text{Tl}$ ", J. Gehlot, A. M. Vinodkumar, N. Madhavan, S. Nath, A. Jhingan, T. Varughese, Tathagata Banerjee, A. Shamlath, P. V. Laveen, M. Shareef, **P. Jisha**, P. Sandya Devi, G. Naga Jyothi, M. M. Hosamani, I. Mazumdar, V. I. Chepigin, M. L. Chelnokov, A. V. Yeremin, A. K. Sinha, and B. R. S. Babu, Phys. Rev. C **99**, 034615 (2019).
6. "Investigation of fusion hindrance in a soft asymmetric system deep below the barrier", Md Moin Shaikh, S. Nath, J. Gehlot, Tathagata Banerjee, Ish Mukul, R. Dubey, A. Shamlath, P. V. Laveen, M. Shareef, A. Jhingan, N. Madhavan, Tapan Rajbongshi, **P. Jisha**, G. Naga Jyothi, A. Tejaswi, Rudra N. Sahoo and Anjali Rani, J. Phys. G: Nucl. Part. Phys. **45**, 095103,(2018).
7. "Fusion and quasifission studies in reactions forming Rn via evaporation residue measurements", A. Shamlath, E. Prasad, N. Madhavan, P. V. Laveen, J. Gehlot, A. K. Nasirov, G. Giardina, G. Mandaglio, S. Nath, Tathagata Banerjee, A. M. Vinodkumar, M. Shareef, A. Jhingan, T. Varughese, DVGRKS Kumar, P. Sandya Devi, Khushboo, **P. Jisha**, Neeraj Kumar, M. M. Hosamani, and S. Kailas, Phys. Rev. C **95**, 034610 (2017).
8. "Deformation effects on sub-barrier fusion cross-sections in  $^{16}\text{O} + ^{174,176}\text{Yb}$ ", Tapan Rajbongshi, Kalita, S. Nath, J. Gehlot, Tathagata Banerjee, Ish Mukul, R. Dubey, N. Madhavan, C. J. Lin, A. Shamlath, P. V. Laveen, M. Shareef, Neeraj Kumar, **P. Jisha**, and P. Sharma, Phys. Rev. C **93**, 054622 (2016).

#### **Poster / Seminar Presentations :**

1. "Comparisons of evaporation residue cross-section of  $^{16}\text{O}$  and  $^{18}\text{O}$  induced reactions on W isotopes", Centenary Celebrations Conference on Nuclear structure and nuclear reactions, **P. Jisha**, A. M. Vinodkumar, S. Sanila, K. Arjun, B.R.S Babu, J Gehlot, S. Nath, N. Madhavan, A. Parihari, A Vinayak, Amritraj Mahatoand A. C. Visakh, 2-4

March 2020, Aligarh Muslim University, Aligarh.

2. "Fusion systematics for Radio-active / unstable nuclei using Stelson-model", **P. Jisha** and A. M. Vinodkumar, DAE International Symposium on Nuclear Physics, 2-6 December 2013, Baba Atomic Research Center, Mumbai.
3. Evaporation residue excitation function measurements for reactions forming Rn compound nuclei, A. Shamlath, E. Prasad, P. V. Laveen, N. Madhavan, J. Gehlot, A. M. Vinodkumar, A. K. Nasirov, G. Giardina, G. Mandaglio, S. Nath, M. Shareef, Tathagata Banerjee, A. Jhingan, T. Varughese, DVGRKS Kumar, P. Sandya Devi, Khushboo, **P. Jisha**, Neeraj Kumar, M. M. Hosamani, S. Kailas, 61<sup>st</sup> DAE-BRNS Symposium on Nuclear Physics, 2-6 December 2016, Variable Energy Cyclotron Centre, Kolkata.
4. Measurement of sub-barrier fusion cross sections for  $^{19}\text{F}+^{181}\text{Ta}$ , Md. Moin Shaikh, S. Nath, J. Gehlot, Tathagata Banerjee, Ish Mukul, R. Dubey, A. Shamlath, P. V. Laveen, M. Shareef, A. Jhingan, N. Madhavan, T. Rajbongshi, **P. Jisha**, 61<sup>st</sup> DAE-BRNS Symposium on Nuclear Physics, 2-6 December 2016, Variable Energy Cyclotron Centre, Kolkata.
5. Measurement of ER cross-sections across Z=82 shell closure, J. Gehlot, S. Nath, Tathagata Banerjee, Ish Mukul, R. Dubey, A. Shamlath, P. V. Laveen, M. Shareef, Md. Moin Shaikh, A. Jhingan, N. Madhavan, T. Rajbongshi, **P. Jisha**, Santanu Pal, 61<sup>st</sup> DAE- BRNS Symposium on Nuclear Physics, 2-6 December 2016, Variable Energy Cyclotron Centre, Kolkata.
6. Evaporation residue excitation function for  $^{30}\text{Si} + ^{180}\text{Hf}$ , A. Shamlath, E. Prasad, N. Madhavan, S. Nath, J. Gehlot, A. M. Vinodkumar, M. Shareef, P. V. Laveen, A. Jhingan, T. Varughese, Tathagata Banerjee, DVGRKS Kumar, P. Sandya Devi, Khushboo, **P. Jisha**, Neeraj Kumar, M. M. Hosamani, S. Kailas, 60<sup>th</sup> DAE-BRNS Symposium on Nuclear Physics, 7-11 December 2015, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh.
7. ER excitation function measurement for the  $^{35,37}\text{Cl}+^{181}\text{Ta}$  reactions, P.V. Laveen, E. Prasad, N. Madhavan, S. Nath, J. Gehlot, A.M. Vinodkumar, A. Jhingan, T. Varughese, Tathagata Banerjee, DVGRKS. Kumar, P. Sandya Devi, M. Shareef, Khushboo, A. Shamlath, **P. Jisha**, Priya Sharma, Neeraj Kumar, M.M. Hosamani, 60<sup>th</sup> DAE-BRNS Symposium on Nuclear Physics, 7-11 December 2015, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh.
8. Influence of hexadecapole deformation on fusion for  $^{16}\text{O} + ^{174,176}\text{Yb}$  systems, Tapan Rajbongshi, K. Kalita, S. Nath, N. Madhavan, J. Gehlot, I. Mukul, Tathagata Banerjee, R. Dubey, T. Varughese, A. Shamlath, P.V. Laveen, M. Shareef, Priya Sharma, Neeraj

Kumar, **P. Jisha**, 60<sup>th</sup> DAE-BRNS Symposium on Nuclear Physics, 7-11 December 2015, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh.

**Oral presentations :**

1. Evaporation residue cross-section measurements for  $^{16,18}\text{O} + ^{181}\text{Ta}$  reactions, **P. Jisha**, A. M. Vinodkumar, B. R. S. Babu, S. Nath, N. Madhavan, J. Gehlot, A. Jhingan, T. Banerjee, Ish Mukul, R. Dubey, N. Saneesh, K. M. Varier, E. Prasad, A. Shamlath, P. V. Laveen, and M. Shareef, 64<sup>th</sup> DAE-BRNS Symposium on Nuclear Physics, 23- 27 December 2019, Department of Physics, University of Lucknow, U.P.

**Personal Details**

Gender : Female  
Age : 37 yrs  
Nationality : Indian  
Marital Status : Married  
Languages known : English, Malayam and Hindi

**References**

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**Declaration**

I hereby declare that the entries made in the CV are true to the best of my knowledge and belief.

Place :

Date :

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