Premjith Thekkeppatt

Cretan Matter Waves I.E.S.L,FORTH, Greece 71110 ℘ (+30) 6942702870 ⊠ premjith.tu@gmail.com

Education

- 2013–2018 **5 Years Integrated MSc in Photonics**, International School of Photonics, Cochin University of Science and Technology, Graduation June 2018. Average CGPA:7.88/10
- 2011–2013 Senior Secondary Schooling, *M.E.S Central School, Tirur, Kerala State, India*, Main Stream Subjects: *Physics, Chemistry, Mathematics, Biology and English*, All India Senior Secondary Certificate Examination, Central Board of Secondary Education . Percentage:92 %
 - 2011 **Secondary Schooling**, *M.E.S Central School*, *Tirur, Kerala State, India*, All India Secondary School Examination, Central Board of Secondary Education. CGPA:8.8/10

Research Experience

- Current **Master Thesis**, I.E.S.L,FORTH, Greece, Under the guidance of Dr. Wolf von Klitzing. Position Construction and realization of Bose Einstein condensate for neutral rubidium atom in a offset compensated QUIC trap.*In Progress*
- May June Visiting Research Student, QUEST, P.T.B, Germany, Under the Guidance of Prof. Dr. Piet
 2017 O Schmidt, Highly Charged Ions Group.
 Building a "Electro Optic frequency comb" with intra-cavity electro-optical modulator (EOM).
- May –June **Summer Research Student**, *I.E.S.L, FORTH, Greece*, Under the guidance of Prof. Wolf von 2016 Klitzing. Designing of high resolution imaging system using aspheric lenses,for fluorescence and absorption measurements in matter waves optics experiment.
- December Winter Project Student, In the research group of Prof. P K Panigrahi, IISER Kolkata. 2015 Protective measurement protocol in single trapped ion for state mapping.
- May-June **Summer Project Student**, *In the research group of Prof. P K Panigrahi, IISER Kolkata*. 2015 Weak measurements in singly trapped ions and resultant generation of Schrod inger Cat states

Computation skills

- - Advanced Zemax: Optical Desging, Matlab, Radia

Publications

A self-injection locked DBR laser for laser cooling of beryllium ions

King, S.A., Leopold, T., Thekkeppatt, P. et al. Appl. Phys. B (2018) 124: 214.

Hypersonic trasport of Bose-Eistein condensates in nuetral-atom acclerator ring

Uner review with Nature

Languages

Malayalam Native Speaker English Near Native Tamil Basic

Achievements

Topper in Physics at AISSCE 2012-2013 in CBSE schools under MESSEB, Kerala President, O.S.A Student Chapter, ISP-CUSAT, 2017-2018 Secretary, O.S.A Student Chapter, ISP-CUSAT, 2016-2017 Student Co-ordinator O.S.A IONS KOCHI 2017

Student Co-ordinator, ETCH-NEW School Students Outreach Program, ISP-CUSAT