

## Motie Iman

Position: Ph.D Student of physics  
Period covered: 6 months



### I. Scientific Work

I worked in Iran on:

- 1- Generation of circular polarization of CMB where published in PRD
- 2- Beta function in Lorentz violation theory (my calculation were finished and nowadays it will publish)
- 3- Electron electric dipole moment in standard model extension. (My calculation was finished and I am writing this paper)

### II. Educational activities

*II c. Diploma thesis supervision*  
Prof. M. Haghghat

### III. Service activities

*III a. Within ICRANet*

Here I am working with prof. Xeu on:

- 1- generation of circular polarization of the CMB via Euler -Heisenberg Lagrange
- 2- neutrino physics

Moreover, I am working with prof. Vereshchagin on thermal equilibrium of the pair plasma.

### 2010 Publication

Generation of circular polarization of the CMB  
Phys.Rev.D81:084035, 2010