Óscar Andrés Nájera

CONTACT Information Cap. Rafael Ramos E2-254

Casa # 2 Quito, Ecuador home: +(593-2) 241-2446 mobile: +(593-9) 643-9206 e-mail: najera.oscar@gmail.com www: http://titan-c.github.com



RESEARCH INTERESTS EDUCATION Solid State Physics, Statistical Mechanics, scientific programming & computational systems analysis

Escuela Politécnica Nacional, Quito, Ecuador

Physics Diploma Student

August 2006 - present

• Thesis Topic: "Estimation, by computer simulation, of the exchange energy dispersion between polar nano-regions in $Pb_xBi_4Ti_{3+x}O_{12+3x}$; $x = \{2,3\}$ relaxor ferroelectrics"

• Advisor: Professor Luis Lascano

• Expected graduation date: July, 2012

Honors and Awards Physics Olympiad 1^{st} place, Escuela Politécnica Nacional

2010

ACADEMIC EXPERIENCE

Escuela Politécnica Nacional, Quito, Ecuador

Student August 2006 - present

Includes current research and coursework

Laboratory and teacher's Assistant

August 2011 - present

Responsible of Experimental Physics laboratory in subjects like Newtonian Mechanics, Electromagnetism and Optics. Shared responsibility for lectures, homework assignments and grades.

International Center for Theoretical Physics, Trieste, Italy

Invited Student Feb 20 - Mar 2, 2012

Participation and presentation of research work at the "Advanced School on Scientific Software

Development"

Conference Presentations Nájera, O.: "Phase transitions in random interaction Ising-like models" In: XVI ELAVIO, *Latin*

American School in Operations Research, Feb 2012.

OTHER PUBLICATIONS

Nájera, O.: "Estimation, by computer simulation, of the exchange energy dispersion between polar nano-regions in $Pb_xBi_4Ti_{3+x}O_{12+3x}$; $x = \{2,3\}$ relaxor ferroelectrics", Thesis Preliminary Examination. Department of Physics - Escuela Politécnica Nacional, April 2012.

Computer Skills

• Languages: C/C++, Linux shell scripting, Python, Php, Matlab/Octave, LATEX

• Operating Systems: Linux(Gentoo)

LANGUAGES

Spanish: Native speakerEnglish: Fluent speakerGerman: Fluent speaker