#### The PhD School of SCIENCE



### 2E. COURSE CERTIFICATE

This is to certify that

## Mr. BULMUS, Taygun

has successfully completed the course

# "NBIA Summer School on Neutrinos Underground & in the Heavens"

at the University of Copenhagen.

### **GENERAL COURSE CONTENT**

The course is composed of fifteen lectures on a broad variety of topics in neutrino physics, astrophysics and cosmology, including the fundamental nature of neutrinos, neutrino mass and mixing, neutrino oscillation phenomenology, neutrinos from the Sun and supernovae, cosmic ray generated neutrinos, high energy cosmic neutrino detectors, and neutrinos from the Big Bang. The program is complemented with four comprehensive exercise tutorials, and five discussion sessions. In addition some of the students were selected to make an oral presentation on their work.

### **DURATION**

From August 1<sup>st</sup> to 5<sup>th</sup>, 2016

### **COURSE WEIGHT AND TYPE**

2	<b>ECTS</b>	- (European Credit Transfer System).
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..... n/a...... Type 1 - Complementary skills course, e.g. IUP.

..... n/a...... Type 2 - International/specialist course.

..... n/a..... Type 3 - Advanced master's course.

..... n/a...... Type 4 - Participation in journal clubs, self-study etc.

**COURSE ORGANISERS** 

Sybir Sarkar

Professor Niels Bohr Institute Irene Tamborra

Assistant Professor

Niels Bohr Institute