

After the Mobility – Après la mobilité

Table D - Traineeship Certificate by the Receiving Organisation

Tableau D – Attestation de stage de l'organisme d'accueil

Name of the trainee / Nom du stagiaire : Andrii Falko
Name and address of the sending institution / Nom de l'établissement d'envoi : Kyiv National Taras Shevchenko University. Volodemirskaya st., 64, Kiev, Ukrainian, 01033
Address of sending institution [street, city, country, phone, e-mail address], website: Coordonnées de l'établissement d'envoi [rue, ville, pays, téléphone, adresse mail], site internet : Volodymirska st. 64, Kyiv, Ukraine, 01033, +380442393333, office.chief@univ.net.ua, www.univ.kiev.ua
Name of the Receiving Organisation / Nom de l'organisme d'accueil : Centre national de la recherche scientifique (CNRS)
Sector of the Receiving Organisation / Secteur d'activité de l'organisme d'accueil : Laboratoire de Physique des 2 Infinis Irene Joliot Curie (IJCLab)
Address of the Receiving Organisation [street, city, country, phone, e-mail address], website: Coordonnées de l'organisme d'accueil [rue, ville, pays, téléphone, adresse mail], site internet : 15 rue Georges Clemenceau, 91405 Orsay, France, http://www.ijclab.in2p3.fr/en/home/
Start date and end date of traineeship / Dates de début et de fin de stage (travel time excluded – Hors jours de voyage) (Teleworking and the period of isolation at the beginning of the stay are included in the course dates / Le télétravail et la période d'isolement début de séjour sont inclus dans les dates de stages) from / du 06.09.2021 To / au 05.11.2021
Traineeship title / Intitulé du stage : Determination of Nu-Ball detector setup efficiency using Geant4 simulation toolkit
Detailed programme of the traineeship period including tasks carried out by the trainee: Programme détaillé de la période de stage, y compris les tâches réalisées par le stagiaire : • GEANT IV simulations of the nu-Ball spectrometer response to single and multiple gamma • Determination of the total and photopeak efficiencies of Nu-Ball as a function of energy; • Angular correlations between two emitted/detected gamma rays and determination of angular detection biases.
Knowledge, skills (intellectual and practical) and competences acquired (achieved Learning Outcomes): Connaissances, aptitudes (intellectuelles et pratiques) et compétences acquises (résultats d'apprentissage obtenus) : • Simulated conditions of Nuclear Physics experiments; • data analysis using adapted tools, ROOT in particular; • simulation with Geant4 • communicate the results with the team.
Evaluation of the trainee / Evaluation du stagiaire : Andrii has worked with us for 8 intensive weeks. He has shown his ability to learn new concepts and apply them quickly. He had to understand the geometry of the Nu-Ball spectrometer, then simulate different radioactive sources taking into account the angular correlations. He was able to identify problems and solve them. He also showed a good ability to work alone and managed to complete the expected tasks very well.

Date: 22/11/2021

Name and signature (stamp if applicable) of the Supervisor at the Receiving Organisation: Jonathan Wilson, IJC Laboratory

Nom et signature (tampon si applicable) du superviseur de l'organisme d'accueil :

Jonathan Wilson