



I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Fisica Aldo Pontremoli**

Scientist- in - charge: **Prof. Neri Nicola**

**Theraa TORC**

## CURRICULUM VITAE

### PERSONAL INFORMATION

Surname	TORC
Name	Thera

### EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Bachelor degree	Generalphysics -electronics	An-Najah National U.	2015
Master	General physics	An-Najah National U.	2019
Master	Nuclear, particle, astro-particles and cosmology	Paris-Saclay university	2021
PhD	Particle physics	Paris-Saclay university	2023

### FOREIGN LANGUAGES

Languages	level of knowledge
Arabic	Mother tong
English	C1
French	A2

### TRAINING OR RESEARCH ACTIVITY

Doctoral researcher student in the ALICE experiment. Analyzing data from p-Pb collisions collected by ALICE experiment to study the correlation between the charged-particle multiplicity and  $\psi(2S)$  production. Developing the software to evaluate the tracking systematic uncertainty of the muon tracking chambers.

M2 internship in the ALICE experiment. Analyzing data from p-Pb collisions collected by the ALICE experiment during run 2 to measure and extract the yield of  $\psi(2S)$  production.



Internship in the LHCb experiment. Studying the decay channel  $B_0 \rightarrow K^* \gamma$  to use it as a control channel for low- $q^2$  angular analysis.

CERN summer student with ATLAS experiment. State-of-the-art of Monte Carlo predictions for  $tt+Z$  and  $tt+W$  process.

Internship in the ATLAS experiment. Performance study clustering and tracking in a very dense environment for ATLAS inner tracker.

School teacher, MINISTRY OF EDUCATION AND HIGHER EDUCATION. Teaching physics to high school student, i.e. 10<sup>th</sup> and 11<sup>th</sup> grade (15 and 16 years old students).

## CONGRESSES AND SEMINARS

Date	Title	Place
6 - 13 July 2022	International Conference on High Energy Physics ICHEP 2022	Bologna, Italy.
20 June 2022	IJCLab high energy physics pole general meeting	Orsay, France.
23 - 25 May 2022	Groupement De Recherche Chromodynamique Quantique (GDR QCD), 2022	Oleron Island, France.
19 - 20 May 2022	Doctoral school PHENIICS fest 2022	Orsay, France.
2 - 6 May 2022	International Workshop on Deep-Inelastic Scattering and Related Subjects DIS 2022	Santiago de Compostela, Spain.
16 - 20 May 2022	The tenth annual international conference on large hadron collider physics LHCP 2022	online.
4 -10 April 2022	Quark matter international conference 2022	Krakow, Poland.
9 - 15 Jan 2022	Quarkonia as tools	Aussois, France.
17 - 23 Oct 2021	JRJC 2021- Journées de Rencontres Jeunes Chercheurs	La Rochelle, France
5 -8 Aug. 2018	Sixth Palestinian Conference on Modern Trends in Mathematics and Physics 2018	Tulkarem, Palestine.

## PUBLICATIONS

Articles in reviews
ALICE Collaboration, Measurement of $\psi(2S)$ production as a function of charged-particle pseudorapidity density in pp collisions at $\sqrt{s} = 13$ TeV and p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV with ALICE at the LHC, JHEP06(2023)147.



Congress proceedings
Ground and excited quarkonium states as probes of MPI in small systems with ALICE, 41st International Conference on High Energy physics - ICHEP2022, arXiv:2211.10145.
Charmonium production as a function of charged-particle multiplicity in pp and p-Pb collisions with ALICE at the LHC. DIS2022 : XXIX International Workshop on Deep-Inelastic Scattering and Related Subjects 2022, arXiv:2207.13399.
$\psi(2S)$ production as a function of charged-particle multiplicity in pp at $s = 13$ TeV and p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV with ALICE at the LHC. The tenth annual international conference on large hadron collider physics LHCP 2022, arXiv:2210.08825.
Theraa Tork, Measurement of $\psi(2S)$ production as a function of charged-particle pseudorapidity density in pp collisions at $\sqrt{s} = 13$ TeV and p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV with ALICE at the LHC. Journées de Rencontres de Jeunes Chercheurs (JRJC) 2021, hal-03832762

## OTHER INFORMATION

Co-organizer of heavy-ion seminars in the Paris-Saclay area. Group of people from different labs organizing joint seminars in the neighboring area.
Supervision of L3 student. Co-supervising a student in the level of 3rd year of bachelor studying the $\bar{p}$ production in pC collisions with the ALICE fixed target mode.
ALICE Master class 2022. A day in which the ALICE IJCLab group invites school students and introduces them to particle physics and ALICE experiments. My role was to help the students during the practical exercise.
Coordinator at the student association for Physics and Astronomy (SAPA). SAPA is a student association at An-Najah national university that aims to develop Palestinian students' entrepreneurial thoughts and provide them an opportunity to be exposed to diverse international experiences and experiments in physics and astronomy.

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: Orsay, France, 01/12/2023