



The Abdus Salam
**International Centre
for Theoretical Physics**
Physics Without Frontiers



Teaching and promoting medical physics in the Kurdistan region in Iraq

Prof. Farnesk Abubaker, PhD
Head of Physics Department
Charmo University
Kurdistan – Iraq

Dr. Fabrizio Scopelliti, PhD
Head of RadioPharmacy
Cannizzaro Hospital
Italy

What is Kurdistan

Located in Western Asia



Not universally recognized as a State



Divided into 4 territories
(Turkey, Syria, Iran, Iraq)

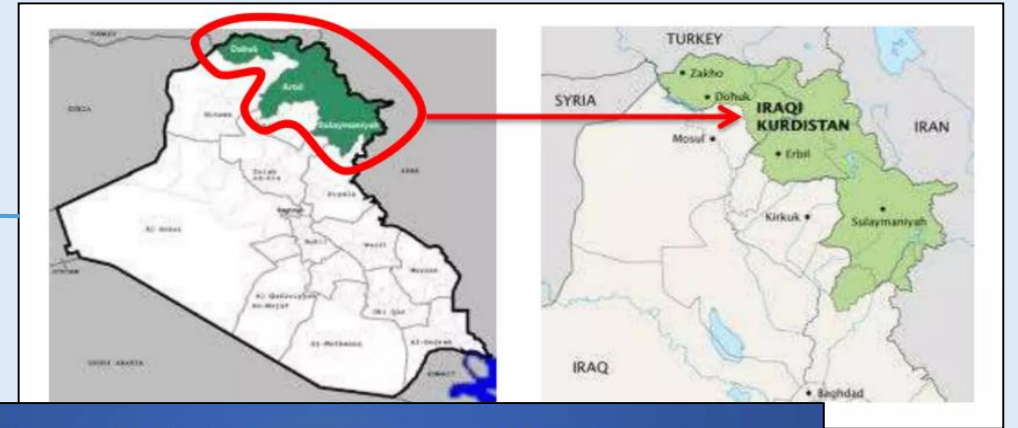


Its flag is used by the Kurds as a symbol of Kurd's desire for independence



Kurdistan Region of Iraq

North West of Iraq



Divided into 5 governorates

Kurdistan region consist of Five Governorate :

- Erbil – Capital of Kurdistan region
- Sulaimaniyah
- Duhok
- Helebce
- Kirkuk



We are located in Sulaimani

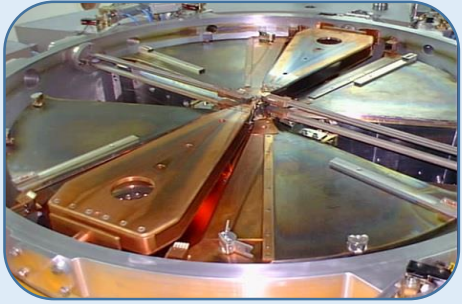


Background of Physics in Kurdistan – Iraq

- Medical Physics is a brand new speciality for Kurdistan and Iraq – no schools of specialization
- Nuclear Medicine is an emerging branch of Medicine – new operating centers / in progress
- After a period across Europe, Dr. Farnesk Abubaker proposed to introduce this topic into the University

Use of ionizing radiation for nuclear medicine and radiopharmacy

Physics applied to Nuclear Medicine and Radiopharmacy



1. Production of a radioactive atom



3. Checking for its injectability



2. Its introduction into a medicine



4. Administration to the patient



5. Clinical diagnosis or therapy

Physics applied to Nuclear Medicine and Radiopharmacy

PROJECT COORDINATOR
HIWA A. AHMED
 Particle Phenomenology, PWF volunteer, Charmo University

ICTP PHYSICS WITHOUT FRONTIERS: KURDISTAN-IRAQ
NUCLEAR MEDICINE: WHERE THE FUTURE BRINGS US

20th NOVEMBER to 23rd NOVEMBER 2022
 DEPARTEMENT OF MEDICAL PHYSICS, COLLEGE OF MEDICALS AND APPLIED SCIENCES, CHARMO UNIVERSITY

LOCAL COORDINATOR

PESHWAZ ABDULKAREEM ABDOL Head of the medical physics department, Plasma Physics, Charmo University	HASTYAR OMAR MOHAMMED Astrophysicist, Charmo University
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SPEAKERS

IN PERSON

SCOPPELLITI FABRIZIO PhD, Head of Radiopharmacy, Cannizzaro Emergency Hospital - Catania, Italy	ABUBAKER FARMESK Physicist PhD, Lecturer, College of Education, University of Sulaimani, Iraq	FAVETTA MARCO PhD-Medical Physics, Biophysics PostDoc, Policlinico Hospital - Bari, Italy	MASPERO MARCO Radiopharmacist National Council of Research, PhD, San Raffaele Hospital - Milan, Italy
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VIRTUAL

IETTO FRANCESCO Nuclear Medicine Physician, Provincial Health Hospital - Catania, Italy	CARAMMA SEBASTIANO Nuclear Medicine Technician, Garibaldi Hospital - Catania, Italy	TOSTO MATTIA Nuclear Medicine Technician, Garibaldi Hospital - Catania, Italy	POMETTI MARCO Radiochemist PhD, Cannizzaro Emergency Hospital - Catania, Italy	PISCIOTTA PIETRO Medical Physicist, PhD, UMC Groninger, Netherlands
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 The Abdus Salam International Centre for Theoretical Physics Physics Without Frontiers





1st edition: Nov 20th to 23rd, 2022 @ Charmo University

2nd edition: Oct 1st to 4th, 2023 @ Sulaimani University

ICTP Physics Without Frontiers: Kurdistan - Iraq

MEDICAL PHYSICS
USE OF RADIATION IN CANCER MANAGEMENT

1ST - 4TH OCTOBER 2023

Physics Department, College of Science, University of Sulaimani

PROJECT COORDINATORS

Abubaker Farmesk CHARMO UNIVERSITY, IRAQ
Scopelliti Fabrizio CANNIZZARO HOSPITAL, ITALY

COORDINATORS

Kharman Faraj RADIOLOGIST PHD, PROFESSOR, COLLEGE OF SCIENCE, SULAIMANI UNIVERSITY
Abubaker Farmesk PHYSICIST PHD, LECTURER, COLLEGE OF SCIENCE, CHARMO UNIVERSITY


SPEAKERS







IN PERSON

Scopelliti Fabrizio RADIOPHARMACIST PHD, HEAD OF RADIOPHARMACY, CANNIZZARO EMERGENCY HOSPITAL, CATANIA, ITALY
Abubaker Farmesk PHYSICIST PHD, LECTURER, COLLEGE OF SCIENCE, CHARMO UNIVERSITY, IRAQ
Khanna Ruhani MEDICAL PHYSICIST, PHD STUDENTS, NOTTINGHAM TRENT UNIVERSITY, UK
La Torre Flavia NUCLEAR MEDICINE PHYSICIAN, POLYCLINIC HOSPITAL, MESSINA, ITALY
Saeed Soma MEDICAL PHYSICIST, PHD, LECTURER, SULAIMANI POLYTECHNICS UNIVERSITY, IRAQ
Murad Karzan BOARD CERTIFIED RADIATION ONCOLOGIST, PHD, ZHIANAWA CANCER CENTER, IRAQ
Wshiar Lana BOARD CERTIFIED RADIATION ONCOLOGIST, PHD, ZHIANAWA CANCER CENTER, IRAQ
Mohammed Shwan BOARD CERTIFIED RADIATION ONCOLOGIST, PHD, ZHIANAWA CANCER CENTER, IRAQ
Ghafour Hawbir MEDICAL PHYSICIST, ZHIANAWA CANCER CENTER, IRAQ

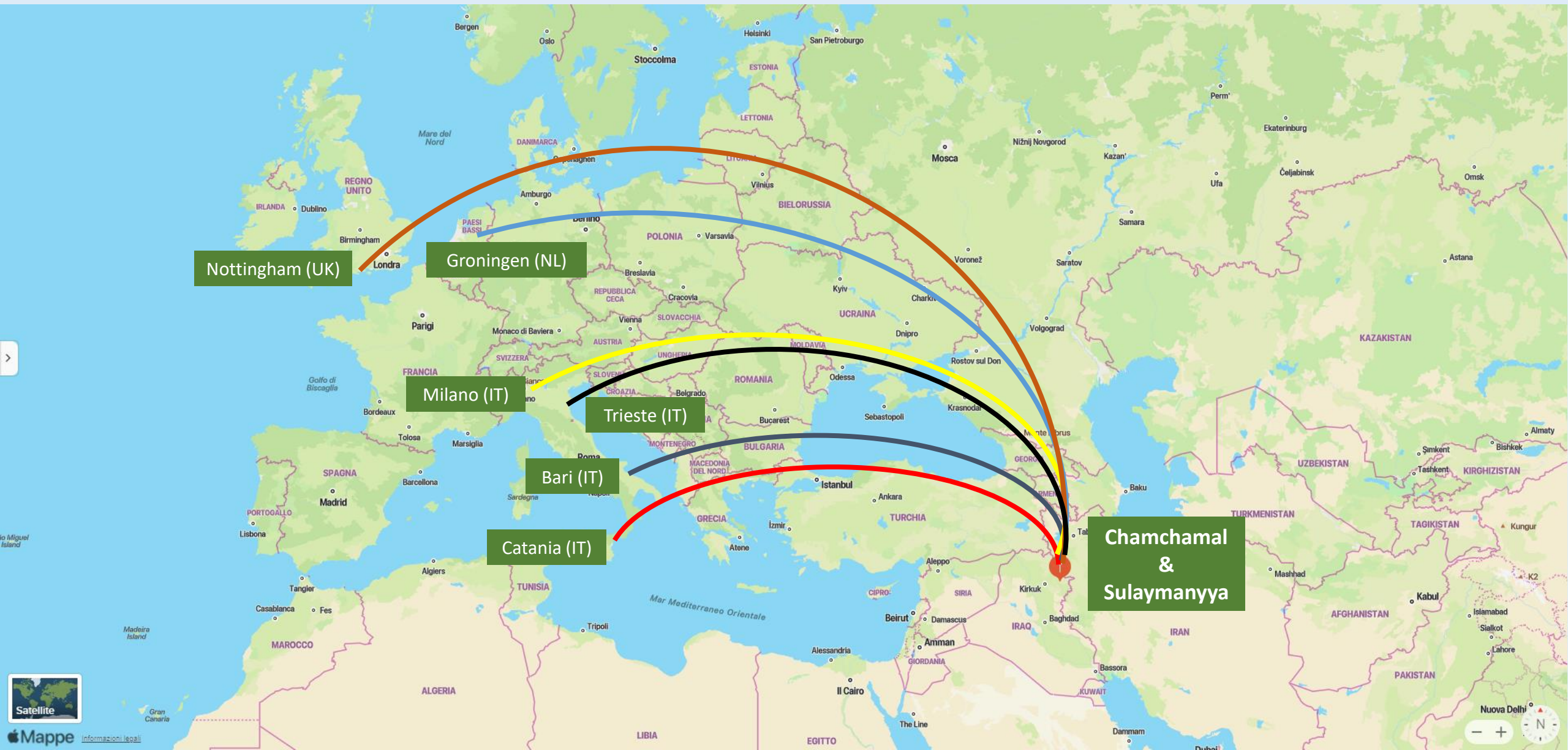
VIRTUAL

Favetta Marco PHYSICIST PHD-MEDICAL PHYSICS, BIOPHYSICS POSTDOC, POLYCLINIC HOSPITAL BARI, ITALY
Maspero Marco RADIOPHARMACIST, NATIONAL COUNCIL OF RESEARCH-SAN RAFFAELE HOSPITAL, MILANO, ITALY
Panasiti Francesco NUCLEAR MEDICINE PHYSICIAN, CANNIZZARO EMERGENCY HOSPITAL, CATANIA, ITALY
Caramma Sebastiano NUCLEAR MEDICINE TECHNICIAN, GARIBALDI HOSPITAL, CATANIA, ITALY
Pisciotta Pietro MEDICAL PHYSICIST, PHD, UNIVERSITY MEDICAL CENTER GRONINGER (UMCG), THE NETHERLANDS

SCAN TO JOIN 

 The Abdus Salam International Centre for Theoretical Physics Physics Without Frontiers






Physics applied to Nuclear Medicine and Radiopharmacy





Speakers from Europe



Francesco Ietto
ASP Catania, ITA



Mattia Tosto
ARNAS Garibaldi, ITA



Francesco Panasiti
AOE Cannizzaro, ITA



Sebastiano Caramma
ARNAS Garibaldi, ITA



Marco Pometti
AOE Cannizzaro, ITA



Pietro Pisciotta
UPMC Groningen, NL

Virtual speakers



Farnesk Abubaker
Charmo University, IRQ



Fabrizio Scopelliti
AOE Cannizzaro, ITA

Project organizers



Marco Maspero
CNR Milano, ITA



Flavia La Torre
AOUP Trieste, ITA



Ruhani Khanna
Nottingham Trent
University, UK



Marco Favetta
AOUP Bari, ITA

In presence speakers



Local Speakers



Local Speakers

Zhianawa Cancer Center, IRQ
(Public Hospital)



Sulaimani Polytechnic University, IRQ
(Public University)



Dr. Lana Wishiar



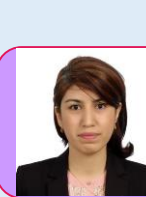
Dr. Shwan Mohammed



Mr. Hawbir Ghafour



Dr. Karzan Murad



Dr. Soma Amin

About the School – Amazing Welcoming



Nice location



Hard Working



Hard Partying



Students participation

1st edition: more than 60 students in
Physics and Medicine
(undergraduated and postgraduated)

2nd edition: more than 170 students in
Physics, Medicine and Chemistry
(undergraduated and postgraduated)



Lovely people



Great food



(Ok, nothing compares to italian food....

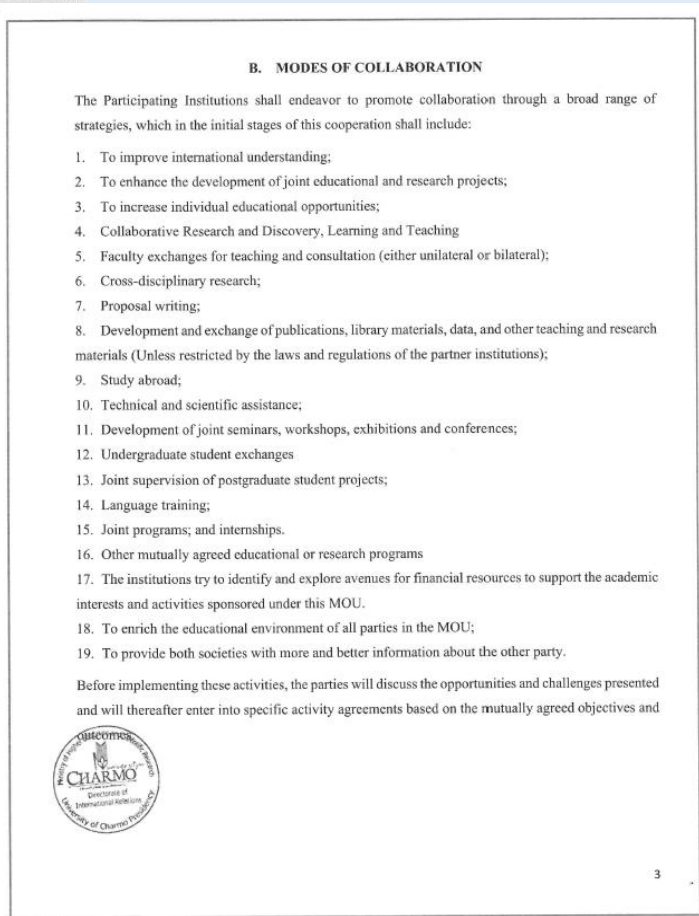
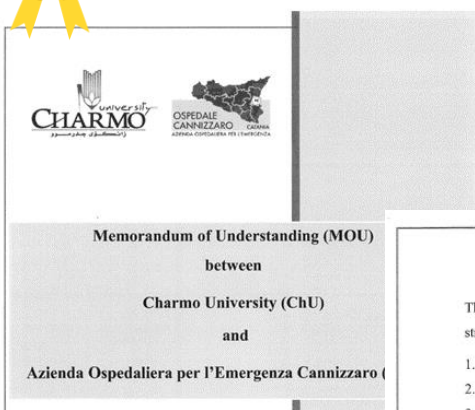


But we could manage well)

Practical Outcomes 1/2



12/09/2023



Dr. Salvatore Giuffrida
Top Executive
Cannizzaro Hospital



Dr. Massimo Ippolito
Head of Nuclear Medicine Dept.
Cannizzaro Hospital



Prof. Hallat Rashid Abdulla
President of
Charmo University



Dr. Bryar A. Hassan
Dean of College of Science
Charmo University



Practical Outcomes 2/2

Teaching and tutorial activity (Memorandum of Understanding already signed)

In progress: MoU with other institutions



Several Iraqi Universities already invited us to have such schools in Medical Physics, Nuclear Medicine and Radiopharmacy – Projects for the future

Feedback from the students

"I hope more important schools in the future for taking information about medical physics."

"As I was one of the participants of the school, in my opinion, it was a great thing, really, and they put good teachers for us. I hope they succeed. I always think it is good to give students the opportunity every year ❤️."

"All the lessons were very useful, I hope you continue and more courses."

"I hope they continue to open these schools because it is really beneficial for students. I would like to thank the university staff and the Italian staff."

"These schools are important and beneficial for students. I think they should continue to do these schools"

"This course is one of the best experiences of my life that I was able to get to know some talented teachers from other countries, and that experience made me look for this subject more and I hope this will be the beginning of improving the field of nuclear medicine in Kurdistan and more courses will be organized so that students can benefit from the experiences of the talented teachers of Kurdistan and outside Kurdistan and be more clear about their future."

"I'm so glad to participate in this amazing school in my country, and I want to say thanks for all of the kindness doctors and teachers. I hope you are successful in the rest of your life "

Kurdistan

