PHYSICS WITHOUT FRONTIERS ANNUAL MEETING, Dec 3, 2024

PWF BURKINA FASO, JUNE 3 -14, 2024

by

Laure GOUBA

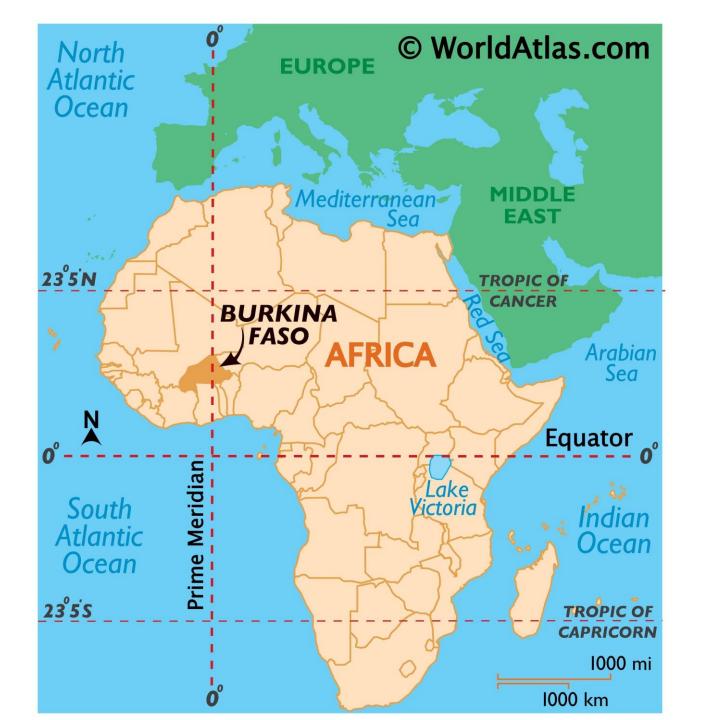
Project: Course on advanced quantum mechanics

TEAM

Speaker: Dr. Laure Gouba (PWF Volunteer, ICTP)

Local organizers: Dr. Mahamadi Savadogo and Prof. Antoine Bere

(University Joseph Ki-Zerbo (UJKZ), UFR-SEA, Physics Department)







Training and Research Unit in Exact and Applied Sciences (UFR-SEA)

- Mathematics Department
- Physics Department
- Chemistry Department
- Computer Science Department
- Department of Common Core Exact and Applied Sciences

Department of Physics



Bachelor's Degree (L1,L2, L3)

Master's Degree (M1, M2)

• Physics

- Solar and Applied Technologies
- Material Physics
- Physics of Energy



Doctoral Degree

Current Situation For Physics Education/Research

- The Department of Physics has training and research activities.
- The training programs lead to a Master's Degree (5 Years).
- There are also doctoral programs.
- There are lack of teaching and research staff.
- The laboratories are not well equipped and lack funds for the well-going of research activities.
- Motivated students in difficult conditions: no bursaries and accommodations problems.

Advanced Quantum Mechanics (Course, tutorial, exam)

Project

- A course of 30 hours in advanced quantum mechanics which is a compulsory course for the first-year Master's program. The course should cover the following topics: Spin- Angular Momentum, Addition of Angular Momenta; Perturbation Theory; Identical Particles. Some tutorial sessions and an Exam.
- A Career Opportunity Seminar: 80 Participants (M1& M2)

Language for the course: French

Lecturer: Dr. Laure Gouba (ICTP)

Students: Class M1: 32 students.

Local Coordinators:

Dr. Mahamadi SAVADOGO (UJKZ)

Prof. Antoine BERE (UJKZ)

TEAM-PARTNERS

- Lecturer: Dr. Laure Gouba, Volunteer, Physics Without Frontiers (PWF), ICTP
- Local organiser: Dr Mahamadi Savadogo, Head of Department of Physics, UJKZ





The Abdus Salam International Centre for Theoretical Physics Physics Without Frontiers





Students of M1 in Physics



Tutorial session





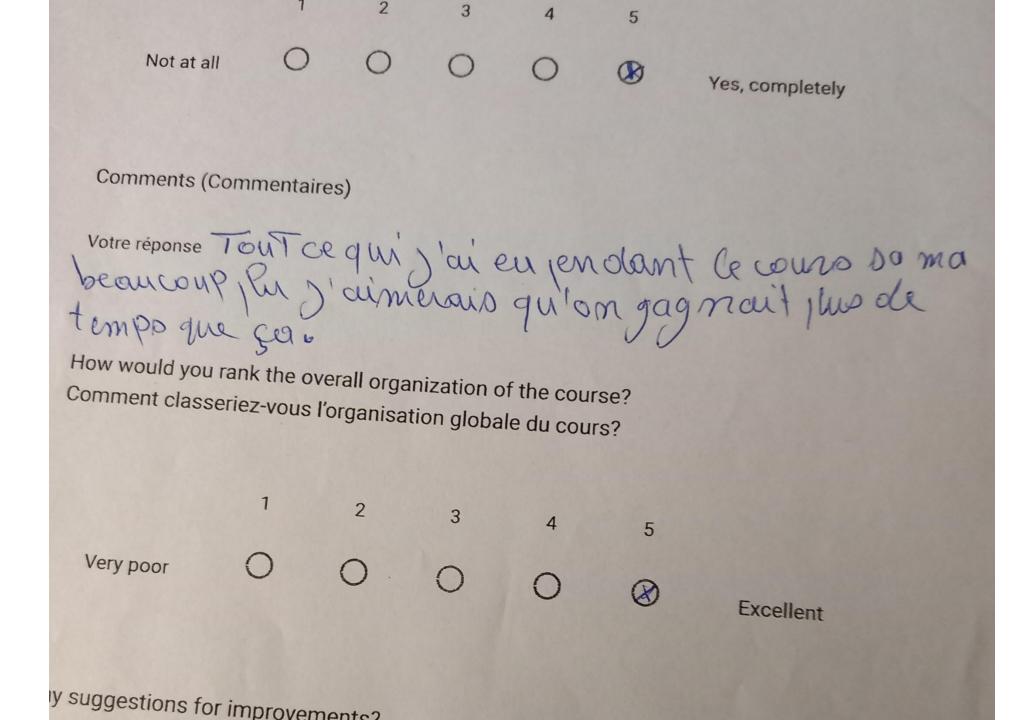
Career opportunity session: M1&M2





Evaluation- Feedback

The students enjoyed a lot the course	The students expected more tutorial sessions	The course fulfill their expectation.	They learnt a lot.
The course will be useful for the Master's 2 programme	Difficulty of the course: Medium.	The course was well organized.	The students wished a longer duration of the course
	The students performed well in the exam	The student voted the speaker very pedagogical	



Comments (Commentaires)

Votre réponse Très belle expérience véaie avec le professeur qu est souciant de ce que vous comprenez ou pas.

How would you rank the overall organization of the course? Comment classeriez-vous l'organisation globale du cours?

Very poor

Excellent

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Any suggestions for improvements? des suggestions d'améliorations?

Votre réponse

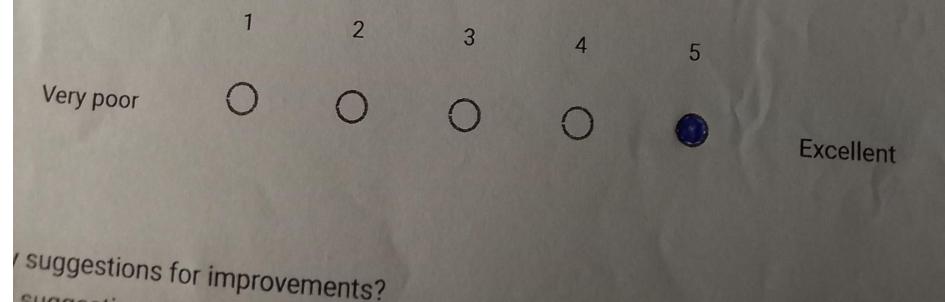
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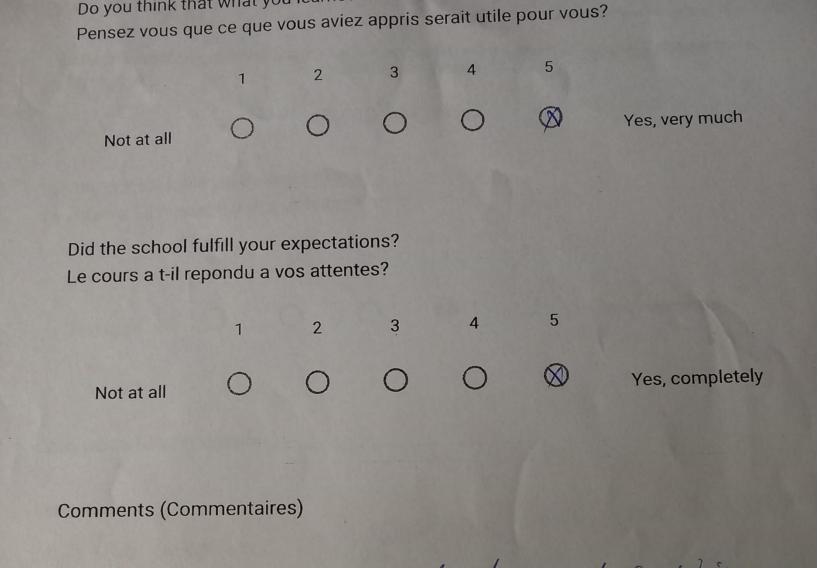
Comments (Commentaires)

Votre réponse

Notre mideau a progressé à l'im du cours

How would you rank the overall organization of the course? Comment classeriez-vous l'organisation globale du cours?





Votre réponse The course was very motivating and inspiring

How would you rank the overall organization of the course?

Take away Lessons, Ideas, Plan

- The students are thankful to ICTP's Physics Without Frontiers Programme.
- The Department of Physics and the local organizers are grateful to PWF and have wished to welcome a PWF project every year.
- The students are interested in the graduate programmes at ICTP.
- The lecturers are interested in ICTP's TRIL programme and the seminars.
- The speaker of the project enjoyed the activity in Burkina Faso. She is grateful to PWF.

Dr. Laure Gouba is an alumna of UJKZ.

