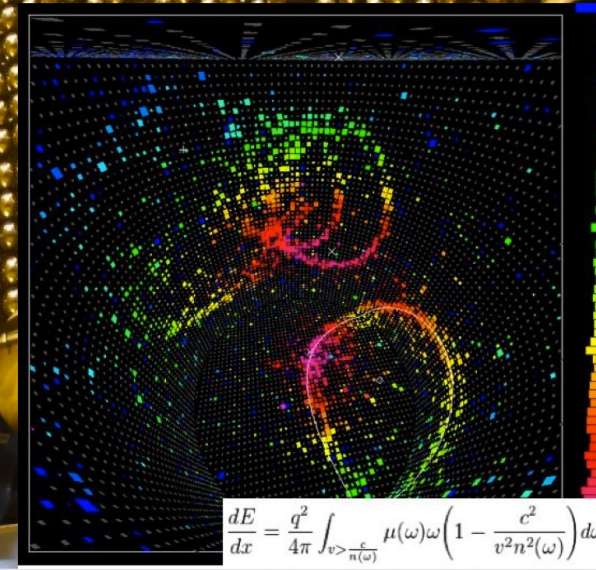


Local Workshop on HyperK Physics II

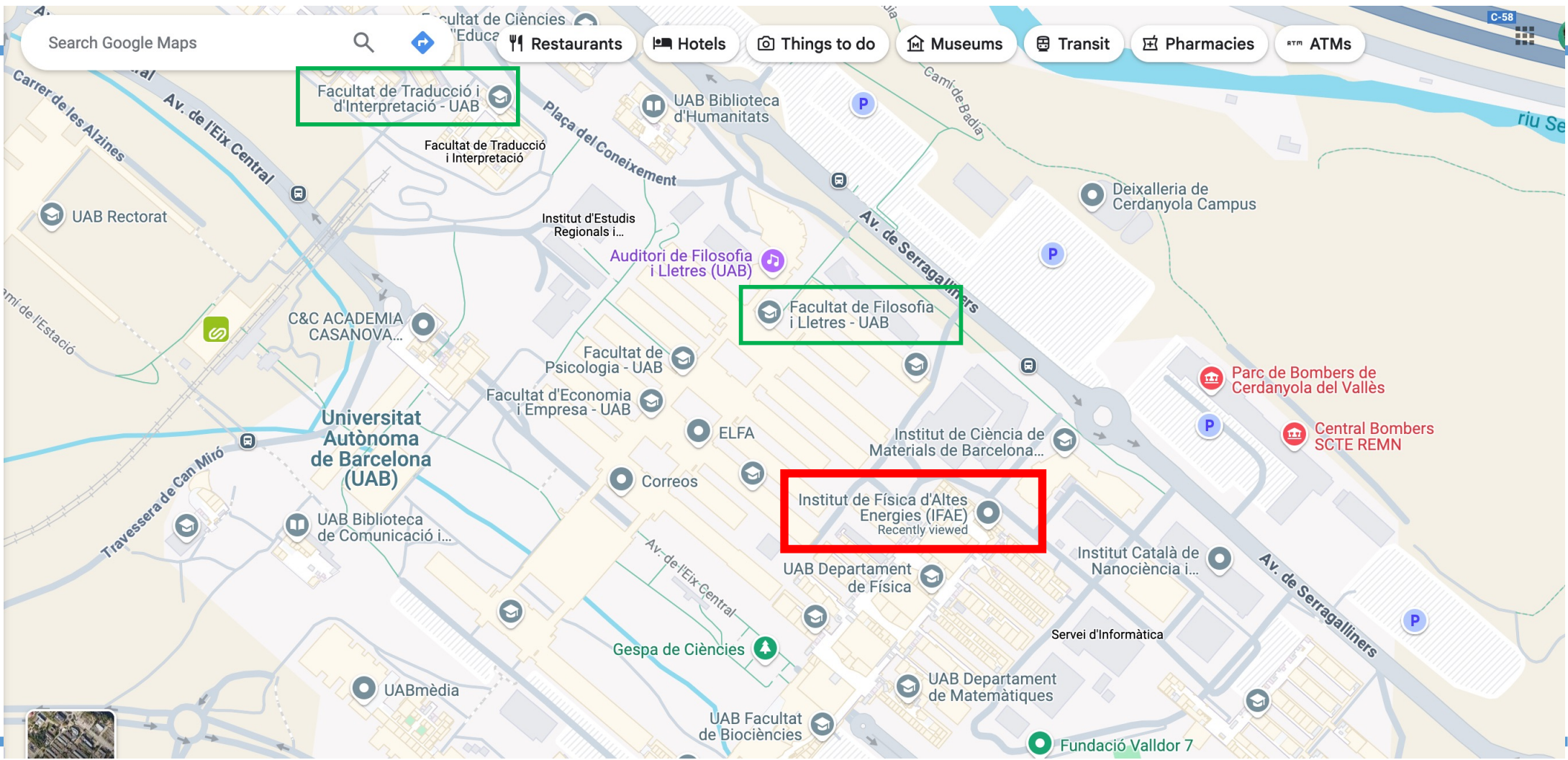


$$\frac{dE}{dx} = \frac{q^2}{4\pi} \int_{v > \frac{c}{n(\omega)}} \mu(\omega) \omega \left(1 - \frac{c^2}{v^2 n^2(\omega)} \right) d\omega$$

Getting ready for building the detector and analyze data



Eventually, we will learn a bit more about nature



Participants

UPValencia

Alejandro Gómez G.

IGFAE(USC)

Diego Costas
Jeremy Dalseno

DIPC

Elena Ramos
Helena Almazan
Jorge Pelegrin
Pablo FM

16 participants

IFAE

Ewan Miller
Loris Martinez
Merlin Varghese
M. Pilar Casado
Thorsten Lux

UAM

Luis Labarga
Nataly Ospina

UO

María Luisa Sánchez
Sergio Suárez

2nd HK Spanish workshop - Monday

Agenda [here](#)
zoom link [here](#)

11:00	Welcome <i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	<i>María Pilar Casado Lechuga</i> 11:00 - 11:10
	The Hyper-Kamiokande project and far detector <i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	<i>Luis Labarga</i> 11:10 - 11:50
12:00	ND280 upgrade towards ND280++ <i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	<i>Dr Ewan Miller</i> 11:50 - 12:20
	Status of IWCD <i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	<i>Pablo FM</i> 12:20 - 12:45
	Lunch	
14:00	<i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	12:45 - 14:15
	Status of the geomagnetic field compensation <i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	<i>Dr Maria Luisa Sanchez</i> 14:15 - 14:35
	Soak tests for the geomagnetic field compensation system <i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	<i>Luis Labarga</i> 14:35 - 14:55
15:00	Design and installation of WCTE <i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	<i>Jorge Pelegrin</i> 14:55 - 15:15
	Radioactive calibration sources <i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	<i>Diego Costas</i> 15:15 - 15:30
	Design of the Data Processing Board for the front-end electronics unit <i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	15:30 - 15:55
16:00	Break <i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	15:55 - 16:20
	Project and hardware discussion + European strategy	

2nd HK Spanish workshop - Tuesday

	Physics with the ND280 Upgrade	<i>María Pilar Casado Lechuga</i>
	<i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	09:20 - 09:45
10:00	WCTE run plan, prospects and first analys	<i>Elena Ramos</i>
	<i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	09:45 - 10:05
	Multi-vertex event reconstruction with fitQun (WCTE)	<i>Loris Martinez</i>
	<i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	10:05 - 10:25
	Supernova online monitoring from SuperK to HyperK	<i>Dr Nataly Ospina</i>
	<i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	10:25 - 10:50
11:00	Break	
	<i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	10:50 - 11:10
	pynu neutrino analysis software and global fits in the HK era	<i>Pablo FM</i>
	<i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	11:10 - 11:35
	Application of novel Bayesian inference methods for neutrino (high-energy physics) analyses	<i>Pablo FM et al.</i>
	<i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	11:35 - 12:00
12:00	Even faster neutrino oscillation probability calculation	<i>Jeremy Dalseno</i>
	<i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	12:00 - 12:20
13:00	Lunch	
14:00	<i>C7b-0-058 - Seminar, IFAE Main Building C7b</i>	12:45 - 14:15
	Physics opportunities + European strategy	

Dinner

- Restaurant 3 Focs



- C. Valencia, 207, Barcelona. Directions [here](#).
- You can register until lunch time: email casado@ifae.es
- Reservation at 20:30 on 30/09. Go there with train S2, stop Provença.

Thank you all very much for coming/attending
Let's share, discuss and learn.