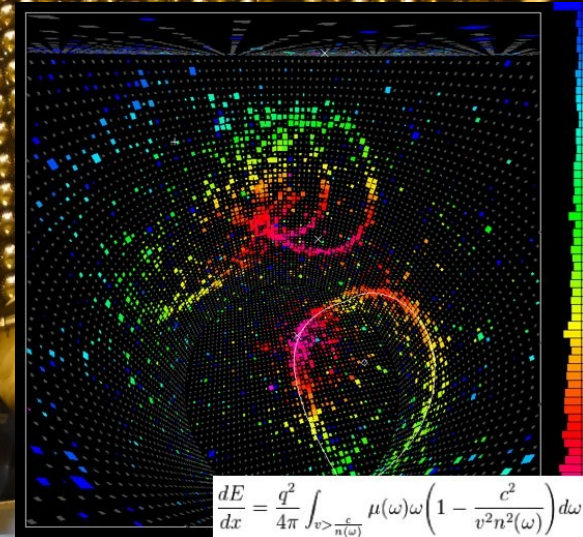
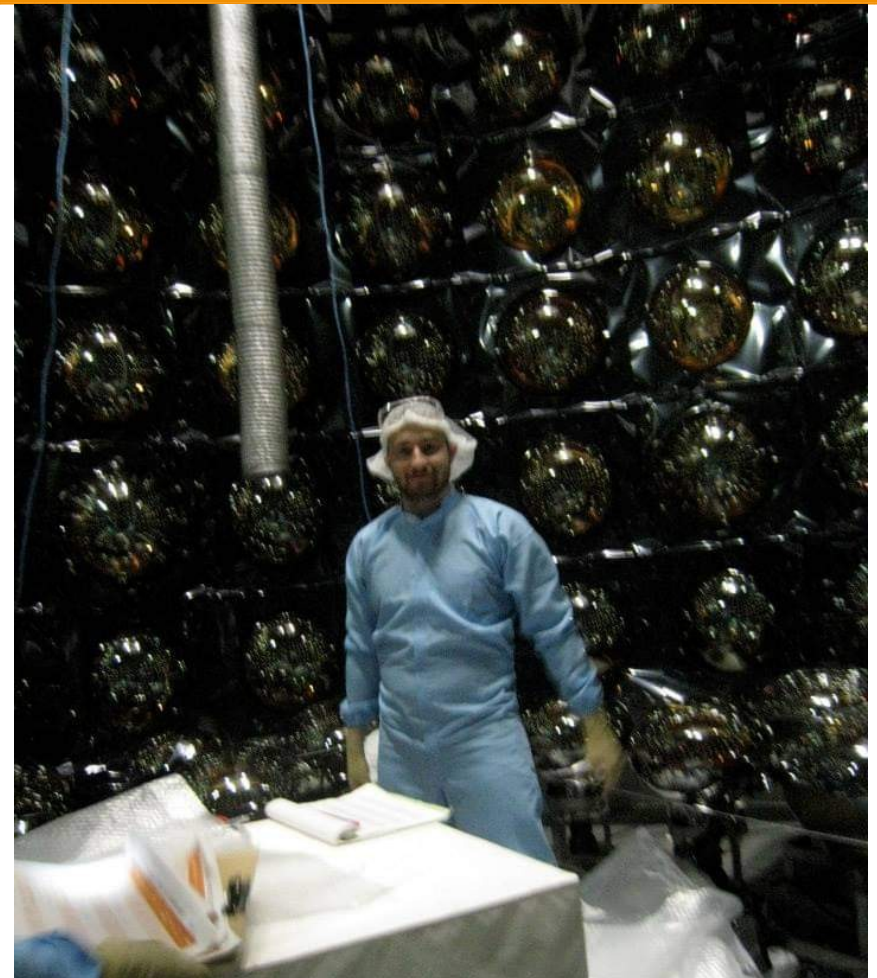


Local Workshop on HyperK Physics I



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

Getting ready for building the detector and analyze data



Eventually, we will learn a bit more about nature

Participation

DIPC

- Elena
- Francesc
- Pablo

IFAE

- Annalisa
- Loris
- Pilar
- Thorsten (remotely)

IFIC

- Bryan (remotely)

UAM

- Luis
- Nataly (remotely)

U. Oviedo

- María Luisa
- Sara
- Sergio

U. Santiago Comp.

- Diego
- José Ángel (last minute remotely)
- Josh

U. Sevilla

- Guillermo (remotely)

Schedule

June 13 (Tuesday)

<i>When</i>	<i>What</i>	<i>Who</i>
12:00 – 12:15	Introduction	Pablo (DIPC)
12:15 – 13:00	The Hyper-Kamiokande Project	Luis (UAM)
13:00 – 13:30	ND280 Upgrade	Thorsten (IFAE)
13:30 – 15:00	LUNCH BREAK	
15:00 – 15:40	WCTE and IWCD	Pablo (DIPC)
15:40 – 16:00	Far detector	Luis (UAM)
16:00 – 16:20	Geomagnetic compensation	Sara / Maira Luisa (UniOvi)
16:20 – 16:35	BREAK	
16:35 – 17:00	Radioactive sources	Josh (USC)
17:00 – 18:00	OPEN DISCUSSION: construction	

Schedule

June 14 (Wednesday)

<i>When</i>	<i>What</i>	<i>Who</i>
9:00 – 9:25	Low-energy physics summary	Nataly (UAM)
9:25 – 9:40	Neutrino mass ordering with supernovae	Elena (DIPC)
9:40 – 10:05	High-energy physics summary	Pilar (IFAE)
10:05 – 10:40	PyNu analysis framework	Pablo (DIPC)
10:40 – 10:55	BREAK	
10:55 – 11:35	Machine learning in particle physics	Bryan (IFIC)
11:35 – 11:55	Machine learning examples in Hyper-Kamiokande	Sergio (UniOvi)
11:55 – 12:15	High-energy event reconstruction: FitQuN	Loris (IAFE)
12:15 – 12:35	High-energy event reconstruction at IWCD: Machine Learning	Annalisa (IFAE)
12:35 – 12:50	Machine learning reconstruction in WCTE	Josh (USC)
12:50 – 13:45	OPEN DISCUSSION: physics	
14:00 – 16:00	LUNCH BREAK	



Thank you all very much for coming / attending

Let's share, discuss and learn.