



Welcome to

马赛!



Welcome to
Luminy and
its Calanques!

Parc Scientifique
de Luminy





CENTRE DE PHYSIQUE DES
PARTICULES DE MARSEILLE

CPPPM



大家好！
Welcome to CPPPM!
欢迎！ 欢迎！

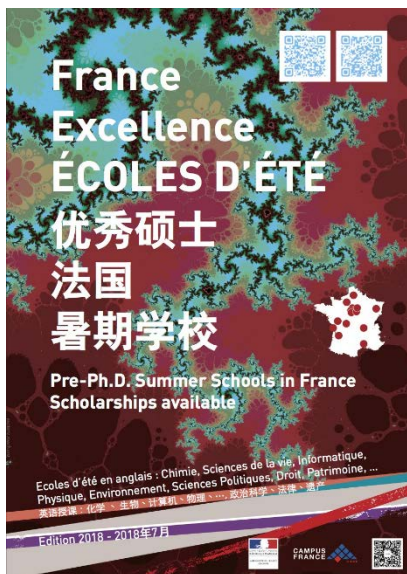
大家好！
Welcome to CPPPM!
欢迎！ 欢迎！

CPPPM director is
Cristinel DIACONU
diaconu@cppm.in2p3.fr

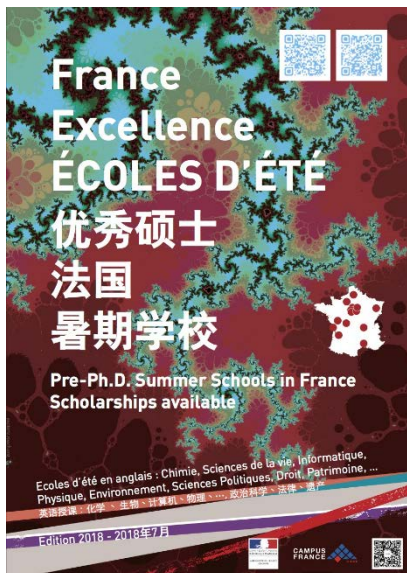
Summer School at CPPM

Programme of the School at CPPM

- Particle Physics (PP)
- Astroparticle Physics (AP)
- Cosmology (CO)
- Mini-projects:
 - Afternoon A: collective work on ATLAS data analysis
 - Afternoon B: in 5 groups of 2 (3) on AP/CO projects
 - Personal work of the 5 groups to prepare a 15' presentation of their work
- Time for discussion with researchers (also about possible thesis subjects)
- You will get a “Certificate of Achievement” at the end of the school
- Social and Cultural Activities
 - French classes (11h)
 - July 3 & 5: beach and dinner at a restaurant (Greenwich and O’ZEN)
 - Jul 8 all day: discover Marseille downtown on your own; boat cruise to discover the Calanques by sea; dinner at “La Nautique” restaurant
 - **Photo contest**



Summer School at CPPM



(almost) All your meals are provided for

- Breakfasts @CROUS
- Lunches @SOGERES
- Coffee breaks @CPPM
- Dinner tray @CPPM, except when restaurant
- Lunch bags, when needed

We will provide you with city bus/metro tickets

- 1 ticket for 1 destination even if you have to make connections between different City bus/subway(metro) lines – RFID validation inside the bus or at the subway gates

You are advised to

- use hats/caps/sun glasses and lotion to protect you from the sun
- And please, always keep an eye on your belongings, and lock your room when you are not in it 😊

Summer School at CPPM - Programme

Also connect to: <http://indico.in2p3.fr/event/17629>

all the slides will be available here + updated info

WiFi connections: Eduroam

CPPM network - SSID=cppm WPA2key=2008acec01

2 juil. 2018	3 juil. 2018	4 juil. 2018	5 juil. 2018	6 juil. 2018	7 juil. 2018	8 juil. 2018	9 juil. 2018	10 juil. 2018	11 juil. 2018
07:30 --- Breakfast ---	07:30 --- Breakfast ---	07:30 --- Breakfast ---	07:30 --- Breakfast ---	07:30 --- Breakfast ---	07:30 --- Breakfast ---	07:30 --- Breakfast ---	07:30 --- Breakfast ---	07:30 --- Breakfast ---	07:30 --- Breakfast ---
09:00 --- Free time ---	09:00 Astrophysics (until 10:30) (Amphitheater)	09:00 Particle Physics (until 10:30) (En Vau)	08:30 Cosmology (until 10:00) (Amphitheater)	09:00 Cosmology (until 10:30) (Amphitheater)	09:00 Conférence (until 10:30) (Amphitheater)	09:30 Cultural activity (until 22:30) (Vieux-Port)	09:30 --- Breakfast ---	09:00 Particle Physics (until 10:30) (Amphitheater)	10:15 --- Collect Lunch Bags ---
Welcome - Eric KAJFASZ ()	09:00 Introduction to Astrophysics (2/2) - Heide Costantini (CPPM) (Amphitheater)	09:00 Introduction to Particle Physics - Yann Coadou (CPPM Marseille) (En Vau)	08:30 Introduction to Cosmology - Dr William Gillard (CPPM - Université Aix-Marseille) (Amphitheater)	09:00 Super-Novae - M. Dominique Fouchez (CPPM) (Amphitheater)	09:00 Machine Learning - Yann Coadou (CPPM Marseille) (Amphitheater)	14:00 Ready to board the boat (Vieux-Port)	09:30 Mini-Projects (until 12:30) ()	09:00 Future of Particle Physics - Romain KUKLA (Amphitheater)	10:45 Departure to catch the 12:44 train to Strasbourg ()
FLE (until 12:30) (Salle du Conseil)	10:30 --- Coffee break ---	10:30 --- Coffee Break ---	10:00 --- Coffee Break ---	10:30 --- Coffee Break ---	10:30 --- Coffee break ---	14:30 Cruise in the Calanques (Operated by "Croisières Marseille Calanques") (Boat)	09:30 --- Free time ---	10:30 --- Coffee Break ---	
	11:00 FLE (until 12:30) (Salle En Vau)	11:00 FLE (until 12:30) (Salle du Conseil)	11:00 FLE (until 12:30) (Salle du Conseil)	11:00 FLE (until 12:30) (Salle du Conseil)	11:00 Conférence (until 12:30) (Amphitheater)	16:30 --- Free time ---	09:30 Personal Work ()	11:00 FLE (until 12:30) (Salle En Vau)	
					11:00 SuperNemo - Prof. Jose Busto (CPPM / Université Aix-Marseille) (Amphitheater)	19:00 Enjoy the food at the La Nautique Restaurant (Vieux-Port)			
						21:30 Transportation Restaurant-Campus by RTM Bus (Vieux-Port)			
--- Lunch ---	12:30 --- Lunch Break ---	12:30 --- Lunch Break ---	12:30 --- Lunch Break ---	12:30 --- Lunch Break ---	12:30 --- Lunch Break ---		12:30 --- Lunch Break ---	12:30 --- Lunch ---	
Presentation of CPPM by the Lab Director - Cristinel DIACONU (Amphitheater)	14:00 Astrophysics (until 17:30) (Amphitheater)	14:00 Particle Physics (until 17:30) (Amphitheater)	14:00 Cosmology (until 17:30) (Amphitheater)	14:00 Mini-Projects (until 18:00) (Building B and CPPM Amphi)	14:00 Mini-Projects (until 18:00) ()		14:00 FLE (until 15:30) (Salle du Conseil)	14:00 Mini-Projects (until 17:30) ()	
Presentation of the Summer School - Eric KAJFASZ ()	14:00 OTA - Ekrem Oguzhan ANGUNER (Amphitheater)	14:00 The ATLAS experiment - Laurent Vacavant (CPPM) (Amphitheater)	14:00 BAO - Pierros NTELIS (Amphitheater)	14:00 ATLAS Masterclass - Ana DUMITIU Dr Romain KUKLA (CPPM) (Building B)	14:00 Students work in groups of 2 on specific research subjects ()		15:30 --- Coffee Break ---	14:00 Students show their findings and results in a powerpoint presentation ()	
Astrophysics (until 16:30) (Amphitheater)	15:30 --- Coffee Break ---	15:30 --- Coffee Break ---	15:30 --- Coffee Break ---	16:00 Voids - Marie AUBERT (Amphitheater)	18:30 --- Dinner : on site ---		16:00 --- Coffee Break ---	17:30 General Conclusions - Eric KAJFASZ ()	
Introduction to Astrophysics (1/2) - Damien DORNIC (Amphitheater)	16:00 KM3Net/ORCA - Massimiliano LINCETTO (Amphitheater)	16:00 The LHCb experiment - Julien Cogan (Aix Marseille Univ, CNRS/IN2P3, CPPM) (Amphitheater)	17:30 Cultural activity (until 22:30) (OZEN Restaurant)	17:30 Cultural activity (until 22:30) (OZEN Restaurant)	17:30 Selection of research projects B in groups of 2 (Amphitheater)		16:00 Mini-Projects (until 18:30) ()	18:30 --- Dinner : on site ---	
--- Break ---	17:30 Cultural activity (until 22:00) (Greenwich Restaurant)	18:00 --- Dinner : on site ---	17:30 Transportation Campus-Restaurant by car (OZEN Restaurant)	17:30 Transportation Campus-Restaurant by car (OZEN Restaurant)	18:00 --- Dinner : on site ---		16:00 Personal Work ()		
Conférence (until 18:30) (Amphitheater)	17:30 Transportation Campus-Restaurant by car (Greenwich Restaurant)		18:00 --- Enjoy the beach ---	18:00 --- Enjoy the beach ---			18:30 --- Dinner : on site ---		
Medical Imaging - Prof. Christian Morel (Centre de Physique des Particules de Marseille) (Amphitheater)	18:00 --- Enjoy the beach ---		19:30 Enjoy the food at the OZEN restaurant (OZEN Restaurant)	19:30 Enjoy the food at the OZEN restaurant (OZEN Restaurant)					
--- Dinner : on site ---	19:30 Enjoy the food at the Greenwich restaurant (Greenwich Restaurant)		21:30 Transportation Restaurant-Campus by car (OZEN Restaurant)	21:30 Transportation Restaurant-Campus by car (OZEN Restaurant)					
	21:30 Transportation Restaurant-Campus by car (Greenwich Restaurant)								

All classes are generally held @CPPM Auditorium, En Vau and Council Rooms
 Research Projects A: Computing room @Faculty of Sciences Bld B
 Research Projects B: Meeting rooms @CPPM
 Personal Work: @CPPM,...

PLAN DU CAMPUS LUMINY

PARC SCIENTIFIQUE
ET TECHNOLOGIQUE
--
MARSEILLE LUMINY
--

Commerce à Proximité

Géant Casino Valmante
(Bus 21 - Arrêt VALMANTE)



Bâtiment TPR1
Salles 104H à 121H
Salles T.P

GRAND HALL
Maison de l'Etudiant
Reprographie
Journaux
Distributeur Autom.de Billets
Zone d'Affichage
SOGERES

Bât.CNRS
Salles 01C / 02C
RdC

Bâtiment B
Amphis 7 à 12
Salles 00B à 105B
Salles d'Informatique

Bât.CNRS
Salle 03C / 04C
RdC

Bâtiment A
Amphis 1 à 6
Salles 03A à 127A
Service des Sports
Bureau des Licences
Service d'Insertion Professionnelle

Médecine Préventive



Bibliothèque Universitaire
s.u.i.o..
Centre de Langues
Salles de cours
BU3A et BU3B

Bâtiment TPR2
Service Scolarité
Administration - Cabinet du Doyen
Salles TD et TP

Restaurant Universitaire



Bureaux du CROUS
Assistante Sociale

- 5 CNRS
- 10 INSERM
- 13 CINAM
- 14 IRPHE/ IOA
- 16 CIML
- 17 IRPHE/ LP3
- 18 IRPHE/ KIR
- 19 CIRM
- 21 Centre formation CNRS
- 22 CCIMP
- 24 IRPHE/ ASI
- 25 CPPM
- 26 IUT-GTR
- 27 ESIL
- 28 Faculté des Sciences du Sport
- 29 AFMB / IGS
- 30 IMMED

BUS

- 21 - Canebiere (Centre Bourse)
- 24 - Sainte Marguerite Dromel
- JET - Rond Point du Prado

Calanque de Sugiton

Particle Physics



Yann COADOU



Romain KUKLA



Laurent VACAVANT



Julien COGAN



Christian MOREL

ATLAS

LHCb

Imaging

Astroparticle & Neutrinos



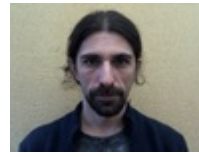
Damien DORNIC



Massimiliano LINCETTO



Heide COSTANTINI



Ekrem Oguzhan ANGUNER



José BUSTO

ANTARES/KM3NeT

CTA

SuperNEMO

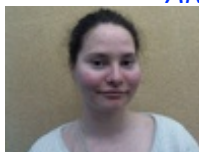
Cosmology



William GILLARD



Pierros NTELIS



Marie AUBERT



Dominique FOUCHEZ

A

B

Mini-projects



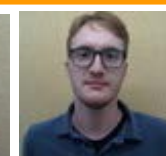
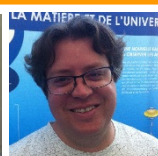
Romain KUKLA



Ana DUMITRIU



Vincent BERTIN



Mathieu PERRIN-TERRIN



Hichem TEDJITI

French Classes

Valérie Du RUSQUEC

Organization



Angélique PEPE

Esthere GARNIER



Marie-Thérèse DONEL



Jocelyne MUNOZ



Eric KAJFASZ



Cristinel DIACONU

coadou@cppm.in2p3.fr
kukla@cppm.in2p3.fr
vacavant@in2p3.fr
cogan@cppm.in2p3.fr
morel@cppm.in2p3.fr
dornic@cppm.in2p3.fr
lincetto@cppm.in2p3.fr
costant@cppm.in2p3.fr
oanguner@cppm.in2p3.fr
busto@cppm.in2p3.fr
gillard@cppm.in2p3.fr
pntelis@cppm.in2p3.fr
maubert@cppm.in2p3.fr
fouchez@cppm.in2p3.fr
dumitriu@cppm.in2p3.fr
bertin@cppm.in2p3.fr
mathieu.perrin-
terrini@cppm.in2p3.fr
tedjditi@cppm.in2p3.fr
vdurusquec@yahoo.fr
pepe@cppm.in2p3.fr
garnier@cppm.in2p3.fr
kajfasz@cppm.in2p3.fr
diaconu@cppm.in2p3.fr

Some transportation infos...

Information (in English) on the City Bus and Subway system can be found at:

<http://www.rtm.fr/en>

To go downtown Marseille, **you need to take:**

- **Line 21 City Bus to "Castellane"**
- and there take **Subway Line 1 (M1) Direction "La Rose"**
- and stop at **"Vieux-Port" station** (2 stations from Castellane).

Count at least 1 hour from Campus to be safe; on holidays the buses and subway trains are less frequent than during the working days.

The 21 Bus takes about 30 minutes to go from Luminy to Castellane, then you need to catch the Line 1 (M1) Subway (1 every 9 minutes on average) which takes a bit less than 10 minutes to reach the "Vieux-Port" station.

Tuesday July 3rd (more detailed info later on)

- **Dinner** together with some of your teachers at the **Greenwich Restaurant at the Escale Borely**.
- Dinner is scheduled at 19:30; **the teachers will drive you by car after class to the restaurant and back to Campus.**
- **Before dinner, you can also have a swim in the Mediterranean sea ... if you feel like it ! :-)**



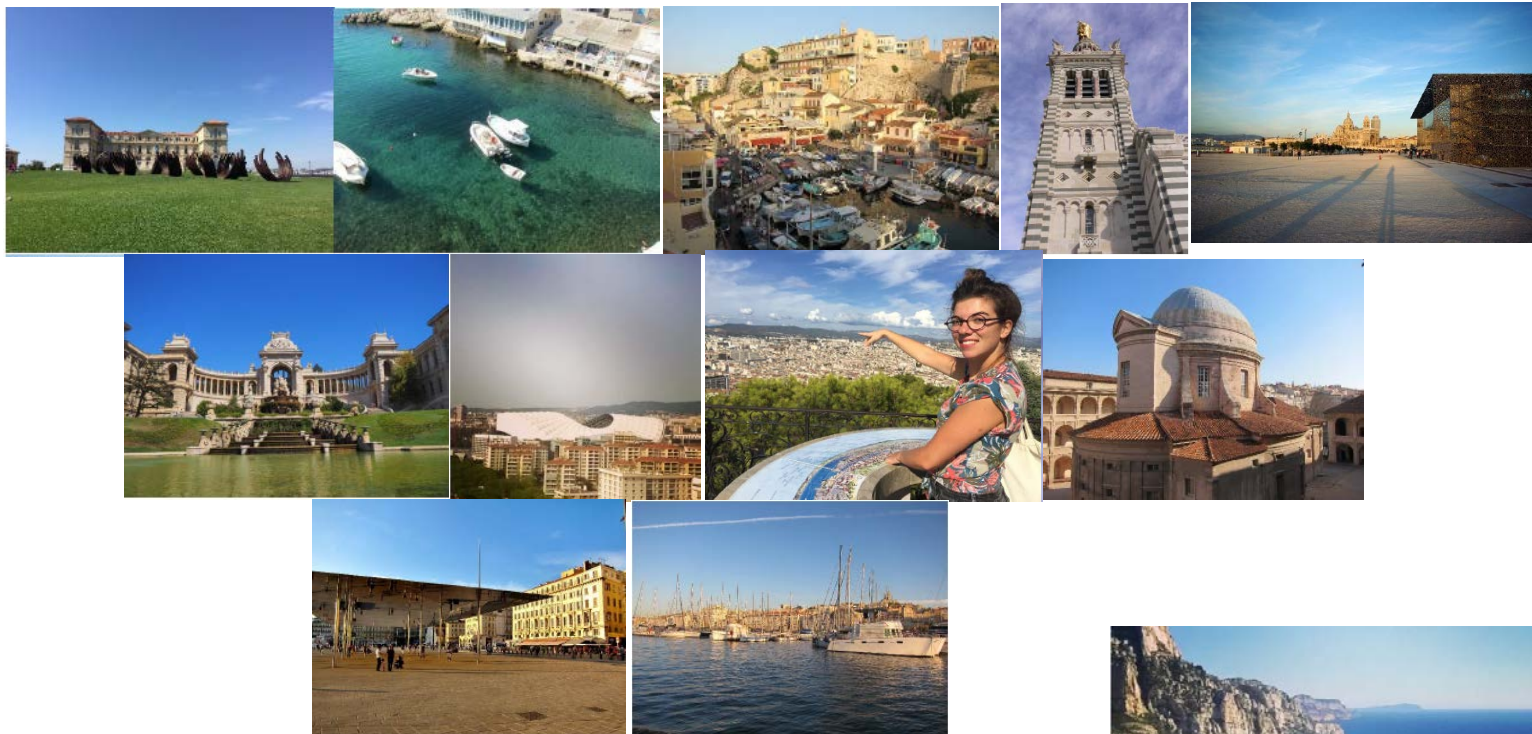
Thursday July 5th (more detailed info later on)

- **Dinner** together with some of your teachers at the **O'ZEN Restaurant** at the **Escale Borely**.
- Dinner is scheduled at 19:30; **the teachers will drive you by car after class to the restaurant and back to Campus.**
- **Before dinner, you can also have a swim in the Mediterranean sea ... if you feel like it ! :-)**



Sunday July 16th (more detailed info later on)

- Take the public transportations to go downtown
- Visit on foot of downtown Marseille on your own



- Regroup at Vieux-Port @14:00 to get on a boat...
14:30-16:30 Cruise by boat of the Calanques
- 19:30 dinner at the Restaurant **La Nautique**
- Around 22:00 back to campus with City bus 521



Other info...

Do not hesitate to contact us for any question you may have on physics, thesis possibilities at CPPM, logistics,...:

- **In person**
- **email**
- **WeChat**

- **Hot water? Hangers? Trash cans?...**
- **Banking card pb., 2 laptops @coffee break**

In case of emergency, please contact:

- **Medical emergency: dial 112 (European number)**
- **24/7 Reception desk @CROUS Bld B at +33 6 35 66 90 42**
- **Éric KAJFASZ / Organization at +33 6 72 07 48 58**
- **Esthere GARNIER / Organization at +33 7 83 30 10 23**
- **Angélique PEPE / Organization at +33 6 09 45 48 14**
- **Ana DUMITRIU (on site in CROUS Bld A) at +33 7 88 94 52 09**



CENTRE DE PHYSIQUE DES
PARTICULES DE MARSEILLE

CPPPM



Once again,
Welcome to CPPPM!
I wish you a fruitful
and enjoyable School!