

A satellite-style map of Europe, showing the continent in shades of green and brown against a dark background. A small blue dot is placed on the southern coast of France, indicating the location of Marseille. The text 'Welcome to' is written in yellow, bold, sans-serif font above the dot.

Welcome to

马赛!

Welcome to
Luminy and
its Calanques!

Parc Scientifique
de Luminy





CENTRE DE PHYSIQUE DES
PARTICULES DE MARSEILLE

CPPM



大家好！
Welcome to CPPM!
欢迎！ 欢迎！



CENTRE DE PHYSIQUE DES
PARTICULES DE MARSEILLE

CPPPM

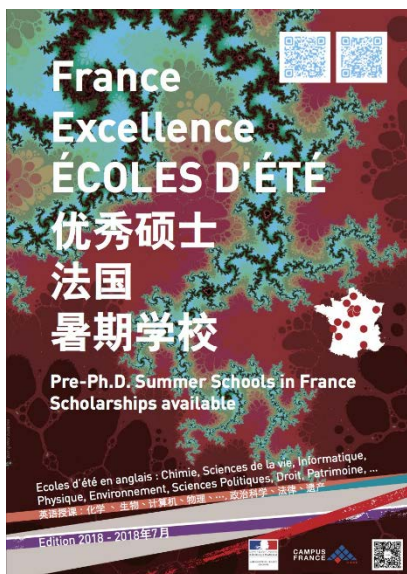


大家好！
Welcome to CPPPM!
欢迎！ 欢迎！

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

Summer School at CPPM

You are 13

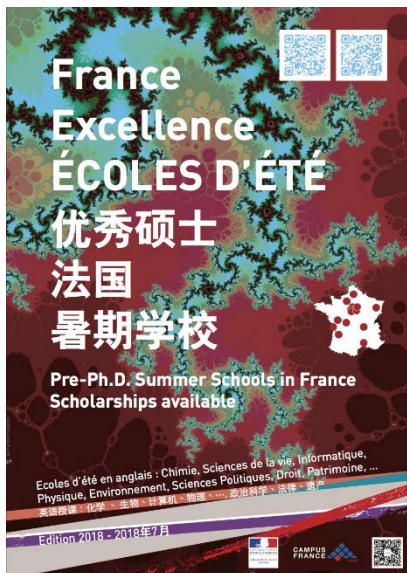


	Chinese Name	Family Name	Given Name	University
Ms	段明亚	DUAN	Mingya	Guangxi
Mr	刘亮	LIU	Liang	USTC
Mr		SANG	Haoyu	USTC
Mr		SU	Shixiang	USTC
Ms	杨雨桐	YANG	Yutong	USTC
Ms	冶新萌	YE	Xinmeng	USTC
Mr	尹石鸣	YIN	Shiming	Tsinghua
Mr	尤祺	YOU	Qi	Tsinghua
Ms	袁鞠敏	YUAN	Jumin	Shandong
Mr	郑祥轩	ZHENG	Xiangxuan	USTC
Mr	周	ZHOU	Hang	USTC
Ms	周贺	ZHOU	He	UCAS
Mr	周	ZHOU	Yao	UCAS

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 6 groups of 2 (3) on AP/CO/PP projects
 - Personal work of the 6 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 (10h)
 - Jul 3: enjoy beach and dinner at O’ZEN restaurant
 - Jul 5: dinner at restaurant downtown
 - Jul 7 all day: Excursion to Lavender Fields at Valensol;
In the evening: beach and dinner at O’ZEN restaurant
 - Jul 9: dinner at restaurant downtown
 - **Photo contest**



Particle Physics

ATLAS



Yann COADOU



Steve MUANZA

LHCb



Julien COGAN

Imaging



Christian MOREL

Astroparticle & Neutrinos

ANTARES/KM3NeT



Damien DORNIC



Massimiliano LINCETTO



Heide COSTANTINI

CTA



Ekrem Oguzhan ANGUNER

Super NEMO



José BUSTO

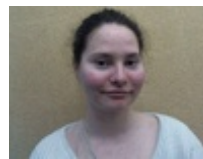
Cosmology



William GILLARD



Pierros NTELIS



Marie AUBERT



Dominique FOUCHEZ

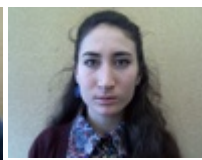
A

B

Mini-projects



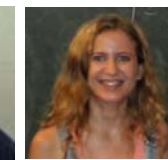
Ana DUMITRIU



Gaia VERNA



Hichem TEDJDITI



French Classes



Valérie Du RUSQUEC

Organization



Angélique PEPE



Marie-Thérèse DONEL



Jocelyne MUNOZ



Eric KAJFASZ



Cristinel DIACONU

coadou@cppm.in2p3.fr
barbero@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
tedjditi@cppm.in2p3.fr
vdurusquec@yahoo.fr
pepe@cppm.in2p3.fr
kajfasz@cppm.in2p3.fr
diaconu@cppm.in2p3.fr

Summer School at CPPM

(almost) All your meals are provided for

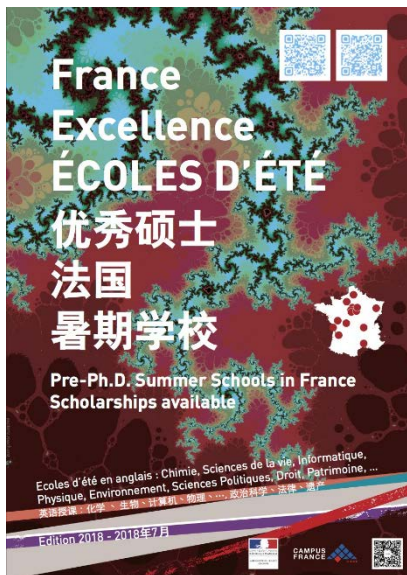
- Breakfasts @CROUS
- Lunches @SOGERES
- Coffee breaks @CPPM
- Dinner tray @CPPM, except when restaurant
- Lunch bags, when needed

We will provide you with city bus/metro tickets

- 1 “travel” allows you to benefit from 1 hour of connections on the RTM network (metro, bus and tramway) but is limited to a single metro access - 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: <https://indico.in2p3.fr/event/18335>

all the slides will be available here + updated info

WiFi connections: Eduroam

CPPM network - SSID=cppm WPA2key=2008acec01

AM	1 juil. 2019	2 juil. 2019	3 juil. 2019	4 juil. 2019	5 juil. 2019	6 juil. 2019	7 juil. 2019	8 juil. 2019	9 juil. 2019	10 juil. 2019	11 juil. 2019
	07:30 --- Breakfast --- 09:00 --- Free time --- 10:30 Welcome and Presentation of the School - Eric KAJFASZ (Salle du Conseil on Port Pin) 2- 11:30 Cultural activity (until 14:30) () 2- 11:30 --- Lunch - CPPM Barbecue organized by the lab ---	07:30 --- Breakfast --- 08:30 High Energy Astrophysics (until 10:00) (Amphitheater) 2- 08:30 Introduction to Astrophysics (2/2) - Ekrem Oguzhan ANGUNER (CPPM) (Amphitheater) 2- 10:00 --- Coffee break --- 10:30 FLE (until 12:30) (Salle En Vau (342)) 2-	07:30 --- Breakfast --- 08:30 Particle Physics (until 10:00) (Salle du Conseil) 2- 08:30 Introduction to Particle Physics - Yann COADOU (CPPM Marseille) (Salle du Conseil) 2- 10:00 --- Coffee Break --- 10:30 Particle Physics (until 12:00) (Salle du Conseil) 2- 10:30 The ATLAS experiment - Dr Steve MUANZA (CPPM Marseille) (Salle du Conseil) 2-	07:30 --- Breakfast --- 09:00 Cosmology (until 10:30) (Amphitheater) 2- 09:00 Introduction to Cosmology - Dr William GILLARD (CPPM - Université Aix-Marseille) (Amphitheater) 2- 10:30 --- Coffee Break --- 11:00 Cosmology (until 12:30) (Amphitheater) 2- 11:00 BAO - Pierros NTELIS (Astroparticule et Cosmology Group) (Amphitheater) 2-	07:30 --- Breakfast --- 10:30 --- Coffee Break --- 11:00 Conférence (until 12:30) () 2- 11:00 SuperNemo - Prof. Jose BUSTO (CPPM / Université Aix-Marseille) () 2- 11:00 Cosmology (until 12:30) (Amphitheater) 2- 11:00 BAO - Pierros NTELIS (Astroparticule et Cosmology Group) (Amphitheater) 2-	07:30 --- Breakfast --- 08:30 Cultural activity (until 22:30) () 2- 10:30 --- Coffee Break --- 11:00 Conférence (until 12:30) () 2- 11:00 SuperNemo - Prof. Jose BUSTO (CPPM / Université Aix-Marseille) () 2- 16:00 Transportation Luminy Campus - Valensol by private Bus () 2- 16:00 Visit of Valensol and surroundings () 2- 16:00 Transportation Valensol-Restaurant by private Bus () 2- 17:30 --- Enjoy the beach --- 19:00 Enjoy the food at the OZEN restaurant (OZEN Restaurant) 2- 21:00 Transportation Restaurant-Luminy Campus by private Bus (OZEN Restaurant) 2-	07:30 --- Breakfast --- 09:00 Free time (until 10:30) () 2- 10:30 --- Coffee Break --- 11:00 Conférence (until 12:30) () 2- 11:00 Medical Imaging - Prof. Christian MOREL (Centre de Physique des Particules de Marseille) () 2- 16:00 Transportation Luminy Campus by private Bus () 2- 16:00 Visit of Valensol and surroundings () 2- 16:00 Transportation Valensol-Restaurant by private Bus () 2- 17:30 --- Enjoy the beach --- 19:00 Enjoy the food at the OZEN restaurant (OZEN Restaurant) 2- 21:00 Transportation Restaurant-Luminy Campus by private Bus (OZEN Restaurant) 2-	07:30 --- Breakfast --- 08:30 Mini-Projects (until 10:30) () 2- 10:30 --- Free time --- 08:30 Personal Work () 2- 10:30 FLE (until 12:30) (Salle du Conseil) 2- 10:30 FLE (until 12:30) (Salle du Conseil) 2- 10:30 FLE (until 12:30) (Salle du Conseil) 2-	07:30 --- Breakfast --- 08:30 Particle Physics (until 10:00) (Amphitheater) 2- 08:30 Future of Particle Physics - Steve MUANZA (AMPhitheater) 2- 10:00 --- Coffee Break --- 10:30 FLE (until 12:30) (Salle du Conseil) 2- 10:30 FLE (until 12:30) (Salle du Conseil) 2-	07:30 --- Breakfast --- 08:30 Departure to Marseille Saint-Charles station to catch the 10:07 TGV train to Lyon () 2-	
PM	18:00 Arrival - group of 13 (15:07-16:16 TGV 6077 from PARIS Gare de Lyon) - transportation to CROUS @Luminy by private bus - Ana DUMITRIU (Saint-Charles, Marseille) 2- 19:30 --- Dinner : on site ---	14:30 Presentation of CPPM by the Lab Director - Cristina DIACONU (CPPM, Aix-Marseille Université CNRS/IN2P3 (FR)) (Amphitheater) 2- 15:00 Conférence (until 16:30) (Amphitheater) 2- 15:00 Machine Learning - Yann COADOU (CPPM Marseille) (Amphitheater) 2- 16:30 --- Break --- 17:00 High Energy Astrophysics (until 18:30) (Amphitheater) 2- 17:00 Introduction to High Energy Astrophysics (1/2) - Damien DORNIC (CPPM) (Amphitheater) 2- 18:30 --- Dinner : on site ---	12:30 --- Lunch Break --- 14:00 High Energy Astrophysics (until 17:30) (Amphitheater) 2- 14:00 CTA - Ekrem Oguzhan ANGUNER (CPPM) (Amphitheater) 2- 15:30 --- Coffee Break --- 16:00 Particle Physics (until 17:30) (Salle En Vau (342)) 2- 16:00 The LHC experiment - Julien COGAN (Aix Marseille Univ. CNRS/IN2P3, CPPM, Marseille, France) (Amphitheater) 2- 17:30 Cultural activity (until 22:00) (Greenwich Restaurant) 2- 17:30 Transportation Campus-Restaurant by car (Greenwich Restaurant) 2- 18:00 --- Enjoy the beach --- 19:30 Enjoy the food at the OZEN restaurant (OZEN Restaurant) 2- 21:30 Transportation Restaurant-Campus by car (OZEN Restaurant) 2-	12:00 --- Lunch Break --- 13:30 FLE (until 15:30) (Salle En Vau (342)) 2- 15:30 --- Coffee Break --- 16:00 Particle Physics (until 17:30) (Salle En Vau (342)) 2- 16:00 The LHC experiment - Julien COGAN (Aix Marseille Univ. CNRS/IN2P3, CPPM) (Amphitheater) 2- 17:30 Cultural activity (until 18:30) () 2- 18:30 --- Dinner : on site ---	12:30 --- Lunch Break --- 14:00 Cosmology (until 17:30) (Amphitheater) 2- 14:00 Super-Novae - Dominique FOUCHÉZ (CPPM) (Amphitheater) 2- 15:30 --- Coffee Break --- 16:00 Voids - Marie AUBERT (CPPM) (Amphitheater) 2- 17:30 Cultural activity (until 22:30) (La Nautique Restaurant) 2- 18:30 Transportation Campus-Restaurant by bus and subway (La Nautique Restaurant) 2- 19:30 Enjoy the food at the "La Nautique" restaurant (La Nautique Restaurant) 2- 21:30 Transportation Restaurant-Campus by 521 bus (La Nautique Restaurant) 2-	12:30 --- Lunch Break - on site --- 14:00 Mini-Projects (until 18:00) (Bld TPR1 00.11 and CPPM Amphi) 2- 14:00 ATLAS Masterclass - Ana Elena DUMITRIU (CPPM,IFIN-HH) (Building B) 2- 17:00 --- Coffee Break --- 17:30 Selection of research projects B in groups of 2 (Amphitheater) 2- 18:00 --- Dinner : on site ---	12:30 --- Lunch Break --- 14:00 Mini-Projects (until 18:30) () 2- 14:00 Students work in groups of 2 on specific research subjects () 2- 16:00 --- Coffee break --- 16:30 Students work in groups of 2 on specific research subjects () 2- 18:30 --- Dinner : on site ---	12:30 --- Lunch Break --- 14:00 Mini-Projects (until 17:30) () 2- 14:00 Personal Work () 2- 15:30 --- Coffee Break --- 16:00 Personal work () 2- 17:30 Cultural activity (until 22:30) () 2- 17:30 Transportation Campus-Restaurant () 2- 18:15 --- Enjoy the surroundings --- 19:30 Enjoy the food at the restaurant () 2- 21:30 Transportation Restaurant-Campus () 2-	12:30 --- Lunch --- 14:00 Mini-Projects (until 17:30) () 2- 14:00 Students show their findings and results in a powerpoint presentation () 2- 17:30 General Conclusions - Eric KAJFASZ () 2- 18:30 --- Dinner : on site ---	12:30 --- Lunch ---	

All classes are generally held @CPPM Auditorium, En Vau and Council Rooms
 Research Projects A: Computing room @Faculty of Sciences TPR1 Bld
 Research Projects B and Personal Work: TBD

PLAN DU CAMPUS LUMINY

PARC SCIENTIFIQUE
ET TECHNOLOGIQUE
--
MARSEILLE LUMINY
--

Commerce à Proximité
Géant Casino Valmante
(Bus **B1**- 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

CPPM

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

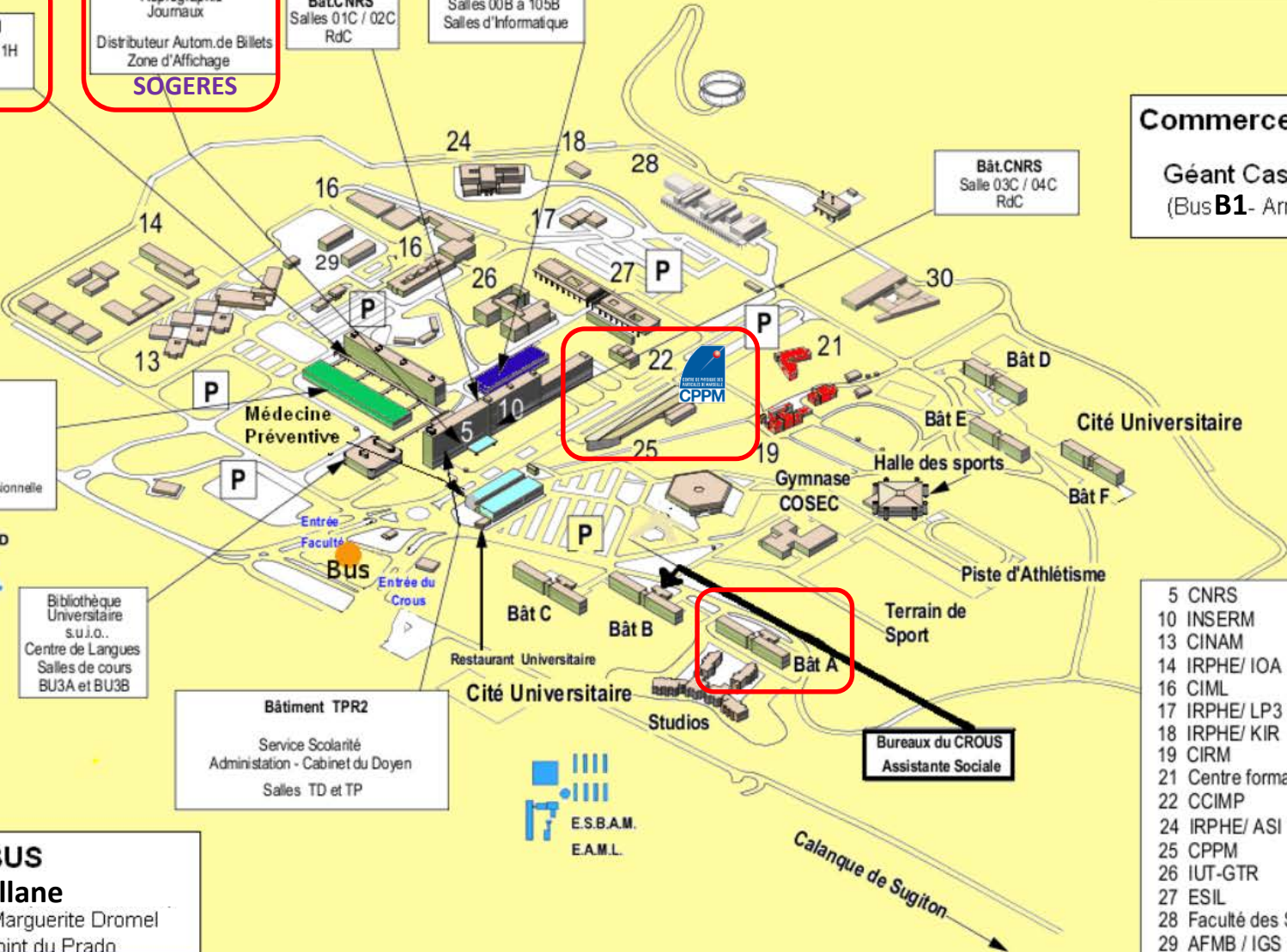
Bâtiment TPR2
Service Scolarité
Administration - Cabinet du Doyen
Salles TD et TP

BUS
B1 - Castellane
24 - Sainte Marguerite Dromel
JET - Rond Point du Prado

- 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

ESBAM
E.A.M.L.

Bureaux du CROUS
Assistante Sociale



Some transportation infos...

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

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

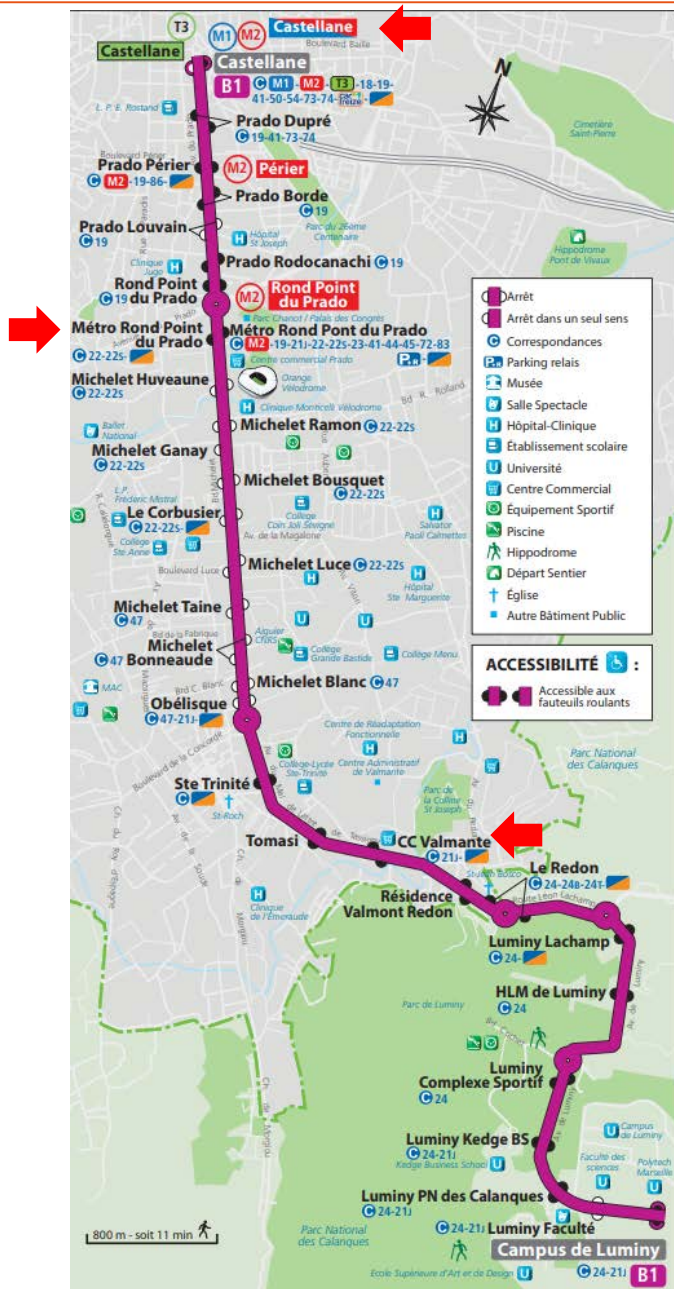
To go downtown Marseille, **you need to take:**

- **Line B1 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.

Summer School at CPPM – B1 bus line



B1 Castellane vers Campus de Luminy

Départ de : **Castellane**

Les arrêts "Luminy Faculté" et "Campus de Luminy" sont desservis uniquement du lundi au vendredi et de 6h à 21h.

Du lundi au vendredi

Hor.	Fréquences moyennes				Horaires			
	H	4	5		19	20	21	22
minutes	15	00			48	00	00	
	30	15			12	20		
	45	30	8 min	6 min	8 min	6 min	8 min	
	44				24	36	48	

Vos heures de passage en temps réel sur l'appli RTM

samedi

Horaires	Fréquences moyennes				Horaires			
	H	4	5	6	19	20	21	22
minutes	30	20	00		05	00	00	
	55	45	10		15	15	20	
				9 min	25	30		
					36	45	48	

dimanche & fériés

min.	Fréquences moyennes														Horaires					
	H	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	41	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	05	20		
	30	20	20	15	15	15	15	15	15	15	15	15	15	15	15	15	30	55		
	40	40	30	30	30	30	30	30	30	30	30	30	30	30	30	30	45	45		

horaires périodes de vacances Du lundi au vendredi

Hor.	Fréquences moyennes				Horaires			
	H	4	5		19	20	21	22
minutes	30	10			02	05	20	
	55	25			14	20		
	40		8 min		26	35		
	52				38	50		

samedi - dimanche & fériés : horaires bleus
 Pour les dates d'application de ces horaires consultez l'affichage des points d'arrêt
Pas de service le 1er mai

B1 Campus de Luminy vers Castellane

Départ de : **Campus de Luminy**

Les arrêts "Campus de Luminy" et "Luminy Faculté" sont desservis uniquement du lundi au vendredi et de 6h à 21h.

Du lundi au vendredi

Horaires	Fréquences moyennes				Horaires			
	H	4	5	6	19	20	21	22
minutes	20	00	00		42	06		
	45	15	15		54	18		
	30	24	8 min	6 min	8 min	6 min	8 min	
	45				30	30	45	

Vos heures de passage en temps réel sur l'appli RTM

samedi

Horaires	Fréquences moyennes				Horaires			
	H	4	5	6	19	20	21	22
minutes	23	20	10		00	00		
	55	45	25		10	15		
				9 min	25	30		
					36	45	46	

dimanche & fériés

min.	Fréquences moyennes														Horaires					
	H	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	00	00	05	05	03	05	05	05	05	05	05	05	05	05	05	05	05	20	45	
	30	25	25	25	20	20	20	20	20	20	20	20	20	20	20	20	20	20	45	
	45	45	45	35	35	35	35	35	35	35	35	35	35	35	35	35	35	37		
	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	55		

horaires périodes de vacances Du lundi au vendredi

Horaires	Fréquences moyennes				Horaires			
	H	4	5	6	19	20	21	22
minutes	20	20	05		58	10	03	
	55	35	17		22	21		
	50	29		8 min	34	45		
	41				48			
	53							

samedi - dimanche & fériés : horaires bleus
 Pour les dates d'application de ces horaires consultez l'affichage des points d'arrêt
Pas de service le 1er mai

Summer School at CPPM - Supermarket

Convenience store

- In « Grand Hall » of TPR2 Bld

Supermarket

- On B1 bus route towards Castellane; @ bus stop « Valmante »

Hyper Casino Marseille Valmante



Avenue De Lattre De Tassigny
13009 MARSEILLE



APPELER



ITINÉRAIRE



COURSES EN LIGNE

OUVERTURE EXCEPTIONNELLE
le dimanche 7 juillet 2019
de 08h30 à 19h00

AUJOURD'HUI	DE 08H30 À 20H30
MERCREDI 03 JUILLET	DE 08H30 À 20H30
JEUDI 04 JUILLET	DE 08H30 À 20H30
VENDREDI 05 JUILLET	DE 08H30 À 21H
SAMEDI 06 JUILLET	DE 08H30 À 21H
DIMANCHE 07 JUILLET	DE 08H30 À 19H
LUNDI 08 JUILLET	DE 08H30 À 20H30

<https://magasins.supercasino.fr/supermarche/marseille-valmante/CS854>

Wednesday July 3rd (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 ! :-)**



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**

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**
- **Ana DUMITRIU (on site in CROUS Bld A) at +33 7 88 94 52 09**
- **Éric KAJFASZ / Organization at +33 6 72 07 48 58**
- **Angélique PEPE / Organization at +33 6 09 45 48 14**



CENTRE DE PHYSIQUE DES
PARTICULES DE MARSEILLE

CPPPM



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