



**International School on:**

# **Amplitudes and Cosmology, Holography and Positive Geometries**

**Lecce, ex-Convitto Palmieri**

**27 May – 1 June 2019**



# Lectures

**Nima Arkani-Hamed** (IAS Princeton) – *Elementary Positive Geometry of Causal Diamonds, Particles and Strings,*

**Daniel Baumann** (ITF Amsterdam) – *The Cosmological Bootstrap,*

**Jacob Bourjaily** (NBIA Copenhagen) – *The Vernacular of the S-Matrix,*

**Paul McFadden** (Newcastle U.) – *Holography: From QFT to Cosmos,*

**Kostas Skenderis** (Southampton U.) – *Holographic Cosmology.*

## Schedule

### Monday, 27 May 2019

08.30 – 09.30 **Registration**

09.30 – 11.00 **Jacob Bourjaily**

11.00 – 11.30 Coffee Break

11.30 – 13.00 **Nima Arkani-Hamed**

13.00 – 14.30 Lunch Break

14.30 – 16.00 **Nima Arkani-Hamed**

16.00 – 16.30 Coffee Break

16.30 – 18.00 **Nima Arkani-Hamed**

18.00 – 18.30 Break

18.30 – 19.30 **Nima Arkani-Hamed** (Public Talk),  
*The End of Spacetime*

### Tuesday 28 May 2019

09.00 – 10.30 **Gong Show**

10.30 – 11.00 Coffee Break

11.00 – 12.30 **Daniel Baumann**

12.30 – 14.30 Lunch Break

14.30 – 16.00 **Jacob Bourjaily**

16.00 – 16.30 Coffee Break

16.30 – 18.00 **Kostas Skenderis**

### Wednesday 29 May 2019

09.00 – 10.30 **Daniel Baumann**

10.30 – 11.00 Coffee Break

11.00 – 12.30 **Problem Session**

12.30 – 14.00 Lunch Break

14.00 – **Trip to Alimini Beach and Otranto**

### Thursday 30 May 2019

09.00 – 10.30 **Kostas Skenderis**

10.30 – 11.00 Coffee Break

11.00 – 12.30 **Daniel Baumann**

12.30 – 14.30 Lunch Break

14.30 – 16.00 **Paul McFadden**

16.00 – 16.30 Coffee Break

16.30 – 18.00 **Problem Session**

### Friday 31 May 2019

09.00 – 10.30 **Jacob Bourjaily**

10.30 – 11.00 Coffee Break

11.00 – 12.30 **Paul McFadden**

12.30 – 14.30 Lunch Break

14.30 – 16.00 **Kostas Skenderis**

16.00 – 16.30 Coffee Break

16.30 – 18.00 **Problem Session**

### Saturday 01 June 2019

09.00 – 10.30 **Paul McFadden**

10.30 – 11.00 Coffee Break

11.00 – 12.30 **Problem Session**

12.30 – 14.00 Lunch Break

14.00 – **The End**

# Practical Information

Welcome to Lecce!

In the following you can find some useful information for your staying.

**Moving around Lecce:** Lecce is a fairly small city, so the best way to move around is on foot. For longer distances within the city, it has an efficient bus system. A single ticket can be purchased either at the *Edicola* and *Tabacchi* shops (they are shops where newspapers and cigarets are respectively sold) with a price of 1 euro, or directly on the bus for 1.50 euros. The ticket needs to be validated on board and has a validity of 90 minutes. The buses accept cash only, and preferably the correct amount. Do not forget to purchase a ticket. Together with the single ticket it is possible to purchase: 24 hours tickets (cost: 2.50 euro – the duration is counted since its validation and allows for unlimited rides within the following 24 hours); multicorse (several rides – it costs 5 euro and allows for 6 rides); Weekly ticket (9.70 euro – it is valid within the week when it is validated). For more information visit the following webpage (in Italian)

<https://sgmlecce.it/servizi/trasporto-pubblico/titoli-di-viaggio>

**Lunches and breaks:** Coffee breaks will be provided by the organizers and served in the proximity of the Sala Teatrino, where the lectures will be held. As for the lunch at the back you can find suggested locations which are at a walking distance from the school venue.

**Wireless and computer facilities:** Wireless internet access is available in the Sala Teatrino, where the school will be held. The network name is *Theory* while the password *adscft*.

**Free afternoon:** On Wednesday 29 May we have arranged an excursion at the Torre dell Orso, Alimini Beach and Otranto. There will be two busses departing after lunch, at 14.00 (sharp). Further details will be provided during the first days of the school.

**Contact information:** The postal address of the ex-Convitto Palmieri, the venue of the school, is Piazzetta Carducci, 73100 Lecce. In case of any problems or practical questions, please contact Paolo Benincasa (+34 633 21 77 21) or Claudio Coriano (+39 3271136871).

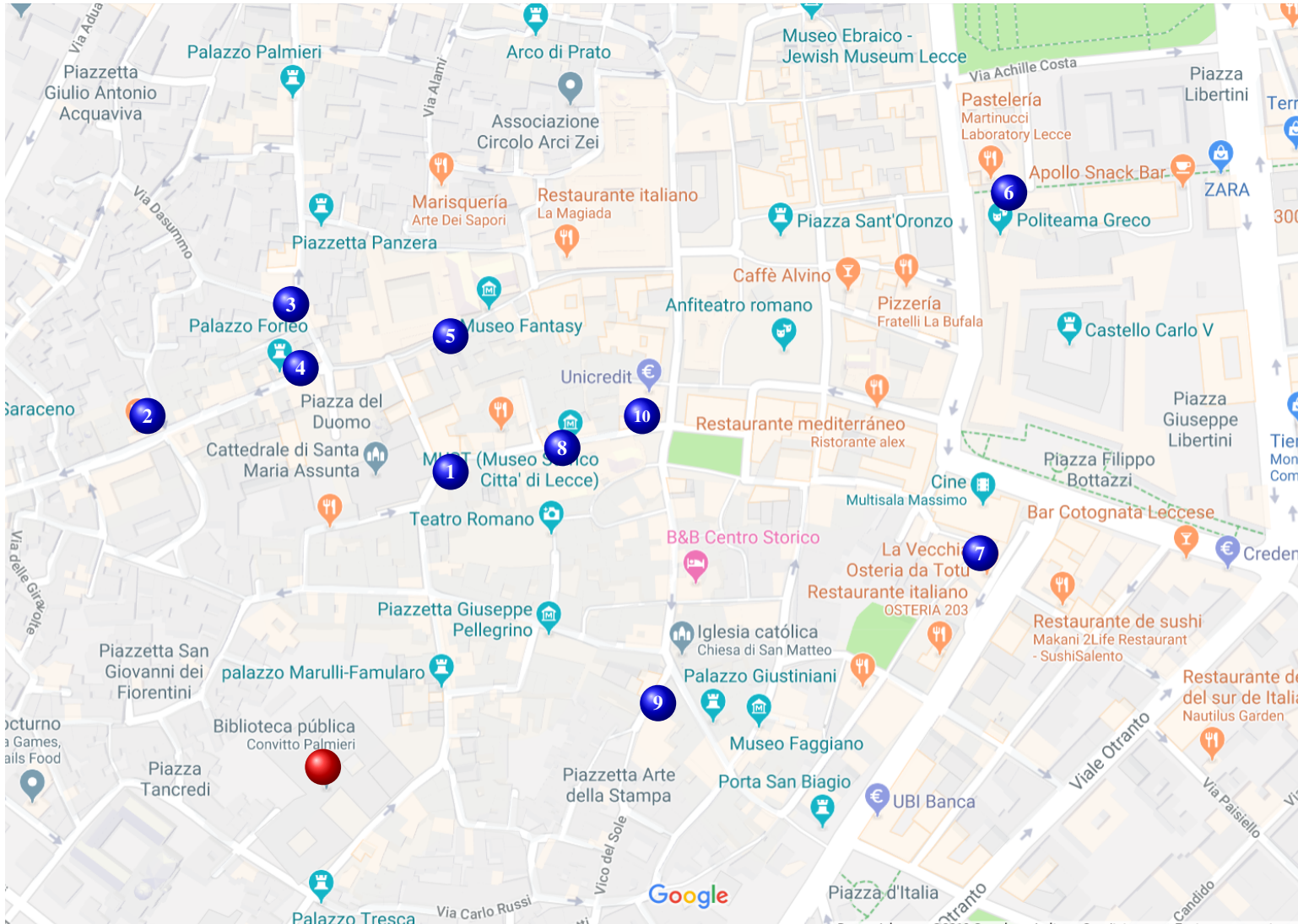
We very much hope that you will find the school both rewarding and enjoyable!

Paolo Benincasa, Pietro Colangelo, Claudio Coriano, Fulvia de Fazio,  
Luigi Delle Rose, Paul H. Frampton, Mirko Serino and Kostas Skenderis



## Suggested Lunch Locations

In the following you can find a list of places where participant might have lunch – but, indeed, there is a plenty of other options. If the weather is particularly nice, an option can be to take food and consume it in an open space.



 School Venue

- 1 00 Doppiozero,  
Via Guglielmo Paladini 2
- 2 La Prelibatezza dal 1941,  
Via Giuseppe Libertini 46
- 3 Prendici Gusto,  
Via Euippa 1
- 4 Angolo della Puccia,  
Via Giuseppe Libertini 78
- 5 La Rusticana,  
Via Vittorio Emanuele II 31
- 6 Magna Magna,  
Via Salvatore Trinchese 18
- 7 La Vecchia Osteria da Totu,  
Viale Francesco Lo Re 9
- 8 Al Fanfulla,  
Via degli Ammirati 16
- 9 Trattoria Nonna Tetti,  
Piazzetta Regina Maria 17
- 10 Il Pizzicotto,  
Via degli Ammirati 14/D