

3 weeks of intense work on everything you always wanted to know about cosmology...

nIFTy Cosmology

nIFTy Cosmology:

numerical simulations for large surveys

SOC:

Alexander Knebe
Frazer Pearce
Juan Garcia-Bellido
Chris Power
Richard Bower

a workshop on the production of virtual skies

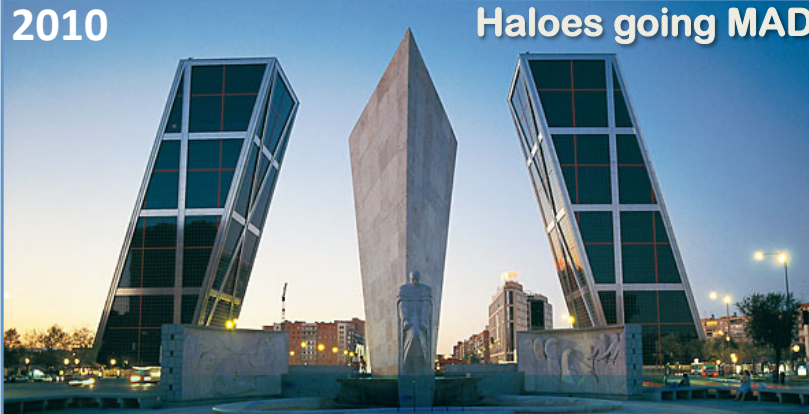
June 30 – July 18, 2014
Instituto de Fisica Teorica, Madrid

more information and registration at <http://popia.ft.uam.es/nIFTyCosmology>

sponsored by



2010 **Haloos going MAD**



a workshop on finding haloos in cosmological simulations
at
La Cristalera de la Universidad Autonoma de Madrid

Madrid, 24/05/2010 – 28/05/2010

more information and registration at
<http://popia.ft.uam.es/HaloosGoingMAD>

ASTROSIM
European Network for Computational Astrophysics

EUROPEAN SCIENCE FOUNDATION
SETTING SCIENCE AGENDAS FOR EUROPE

SOC:
Alexander Knebe
Steffen Knollmann
Gustavo Yepes
Justin Read

Subhaloes going Notts **2012**



a workshop on finding subhaloes in cosmological simulations
in
Dovedale, Nottingham (UK)

14/05/2012 – 18/05/2012

more information and registration at
<http://popia.ft.uam.es/SubhaloesGoingNotts>

SEVENTH FRAMEWORK PROGRAMME
COSMOSIMP

SOC:
Frazer Pearce
Alexander Knebe
Julian Onions
Stuart Muldrew
Hanni Lux
Steffen Knollmann

SUSSING MERGER TREES

a workshop on
constructing merger trees
for cosmological simulations
in
Midhurst, West Sussex (UK)

08/07/2013 – 12/07/2013



2013

more information and registration at
<http://popia.ft.uam.es/SussingMergerTrees>

SOC:
Peter Thomas
Frazer Pearce
Alexander Knebe
Aurel Schneider
Chaichalit Srisawat

SEVENTH FRAMEWORK PROGRAMME
COSMOSIMP

Halo Mass Recovery Comparison

2-6 September 2013

[Home](#)
[Program](#)
[Registration](#)
[Participants](#)
[Venue](#)
[Data Wiki](#)
[Talks](#)

Summary

The aim of this project is to compare various methods for estimating the mass (size, velocity dispersion) of a galaxy group/cluster using the positions, recession velocity, magnitude and colour of a set of galaxies contained within a mock light-cone.

In the first phase of the project we have provided a mock HOD galaxy catalogue containing RA, dec, recession velocity, r-band magnitude and g-r colour for around a million galaxies within a shallow light-cone. We have also provided 1000 trial centres about which we would like estimates for the mass, size and velocity dispersion of each object.

Mock galaxy catalogue and trial centre list download links and uploaded results can be found in the data wiki.

Phase two of the project will involve a deeper light-cone generated in a more modern cosmology and populated using both a semi-analytic model and a more sophisticated HOD model than the one provided for phase 1.

week #1: *nIFTy clusters*

-> comparison of galaxy cluster simulations

week #2: *nIFTy galaxies*

-> comparison of semi-analytical models

-> comparison of approximate methods for galaxy catalogues

week #3: *nIFTy observations*

-> observing lightcones

- formation of workgroups to...
- ...work on provided data
- presentation of results/plots on (ir)regular basis

(provisional) program for each week available at

<http://popia.ft.uam.es/nIFTyCosmology>

for each comparison project:

day #1

- brief description of participating codes
- data introduction: what is available and where
- some first comparison results
- discussion how to proceed
- formation of workgroups

all the time

- work on data by everyone

anytime

- presentation of interim results

- there are two workshop servers*

```
$ ssh nifty2014@castor.ft.uam.es
```

```
$ ssh nifty2014@pollux.ft.uam.es
```

- same password for both
- same directory layout on both
(symbolic links! do not mess with them or anything else, please)

*please refrain from using popia.ft.uam.es from now on!

- directory layout on servers

ApproximateMocks/

ClustersOfGalaxies/

LightconeObservations/

SemiAnalytics/

- directory layout on servers

Comparison/SubDirectories/

- each “Comparison” directory contains “SubDirectories” with...
 - the data provided to the code representatives
(ICs /, DATA /, ...)
 - the returns from the code representatives
(SIMULATION /, SAMs /, ...)
 - some of our post-processing data
(ANALYSIS /, ...)

- directory layout on servers

Comparison/PROJECTS/

- here goes the data relevant for sub-projects of “Comparison”
- only the sub-project coordinator should write here

- directory layout on servers

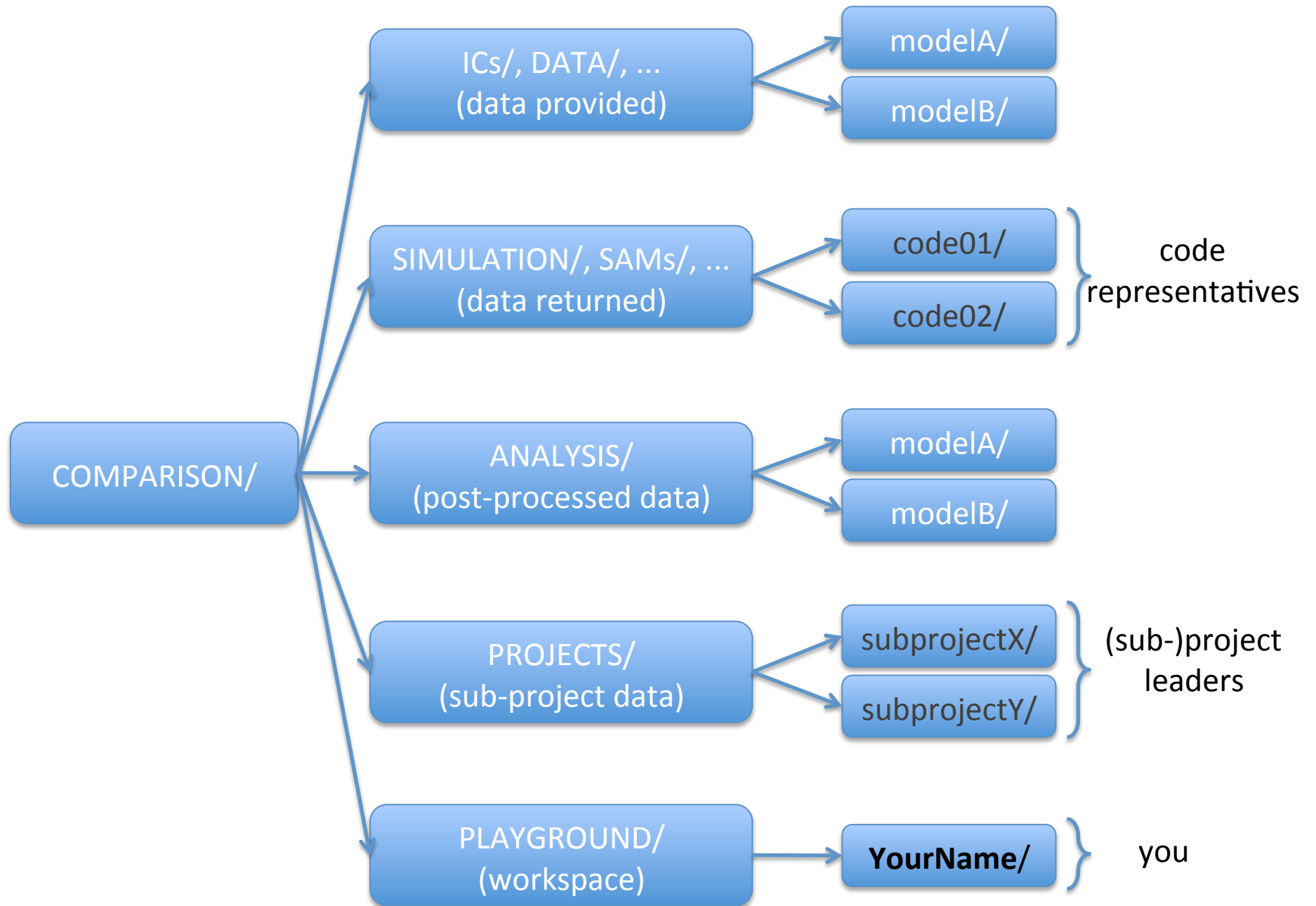
Comparison/PLAYGROUND/

-> workshop playground

- you should only ***read*** what is outside of PLAYGROUND/
- you should only ***write*** inside PLAYGROUND/**YourName/**
(unless you are a code representative providing new data!)

workshop format

data access



workshop format

workshop rooms

- **week #1**

- *general*: sala gris #1
- *workgroups*: sala gris #1, sala gris #2, sala de audiovisuales

- **week #2**

- *general*: “sala de juntas”, 5th floor in IFT
- *workgroups*: discussion rooms on 4th & 2nd floor in IFT

- **week #3**

- *general*: sala gris #1
- *workgroups*: sala gris #1, sala gris #2, sala de audiovisuales

- download and install the software from <https://savicon.csic.es>
- to join a session you need to receive an authorisation email from us that contains the link to the session

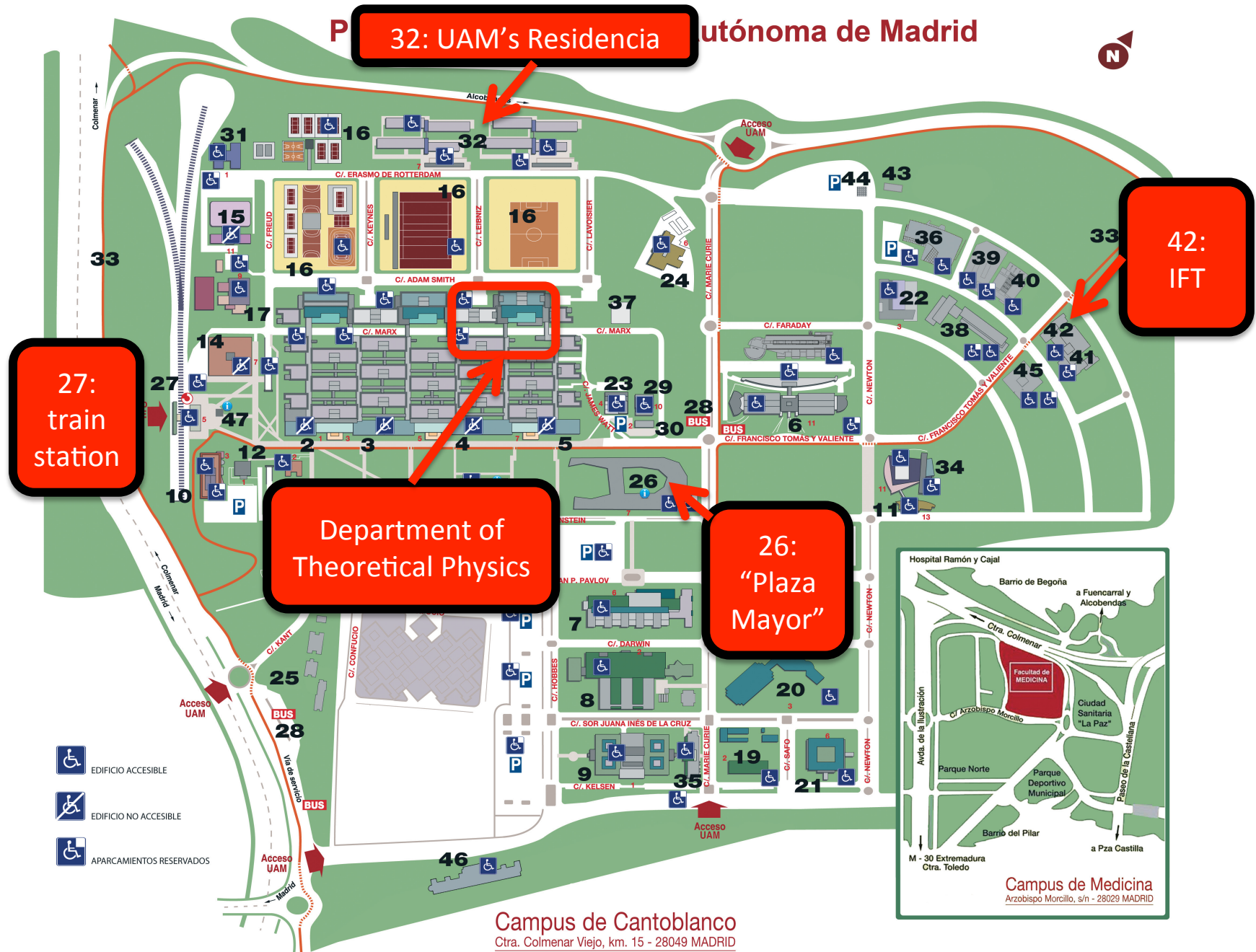
-> therefore, please register ***in advance*** for the individual sessions you plan to join remotely

workshop format

remote participation

nIFTy Cosmology

practical information





11:00h – 11:30h

in the IFT basement (floor -1)

16:00h – 16:30h



practical information

everyday dinner



Línea	Time of Departure	Time of Arrival	Time of travel
C4A	20.07	20.27	0.20
C4B	20.16	20.36	0.20
C4A	20.22	20.42	0.20
C4B	20.28	20.48	0.20
C4A	20.36	20.56	0.20
C4B	20.43	21.03	0.20
C4A	20.53	21.13	0.20
C4B	21.00	21.20	0.20
C4A	21.07	21.27	0.20
C4B	21.16	21.36	0.20
C4A	21.21	21.41	0.20
C4B	21.29	21.49	0.20
C4A	21.37	21.57	0.20
C4B	21.46	22.06	0.20
C4A	21.54	22.14	0.20
C4B	22.06	22.26	0.20
C4A	22.15	22.35	0.20
C4B	22.25	22.45	0.20
C4A	22.35	22.55	0.20
C4B	22.45	23.05	0.20
C4A	22.54	23.14	0.20
C4B	23.00	23.20	0.20
C4B	23.16	23.36	0.20
C4A	23.27	23.47	0.20

1. “Bonotren” (10 journey pass)
for travels to/from UAM:

- 3 zones (B1)
- EUR 13.46

2. There is also a
“Tourist Travel Pass”
(but eventually more expensive!?)



STARTERS

- Gourmet Salad with Pear & Gorgonzola with Jabugo
- Croquettes "de la Casa"
- Sautéed Prawns and Boletus with Red Shrimp Sauce

MAIN DISH

- Baked Fillet of Cod "a la Bilbaína"
- Beef Tenderloin with Grilled Potatoes and Peppers

DESSERT

- House Brownie with Vanilla Ice-cream

BEVERAGES

- Red and White House Wine
- Beer
- Mineral Water

Coffee (plus House liquor by invitation)

PRICE PER PERSON: 30,00 EUROS (VAT INCLUDED)

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**if you registered to attend,
please pay by the end of today!**

DESSERT

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BEVERAGES

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Coffee (plus House liquor by invitation)

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practical information

welcome drinks

Monday, 20:00h @ Taberna “San Fermin de Puerta Cerrada”, Calle de Gómez de Mora 1

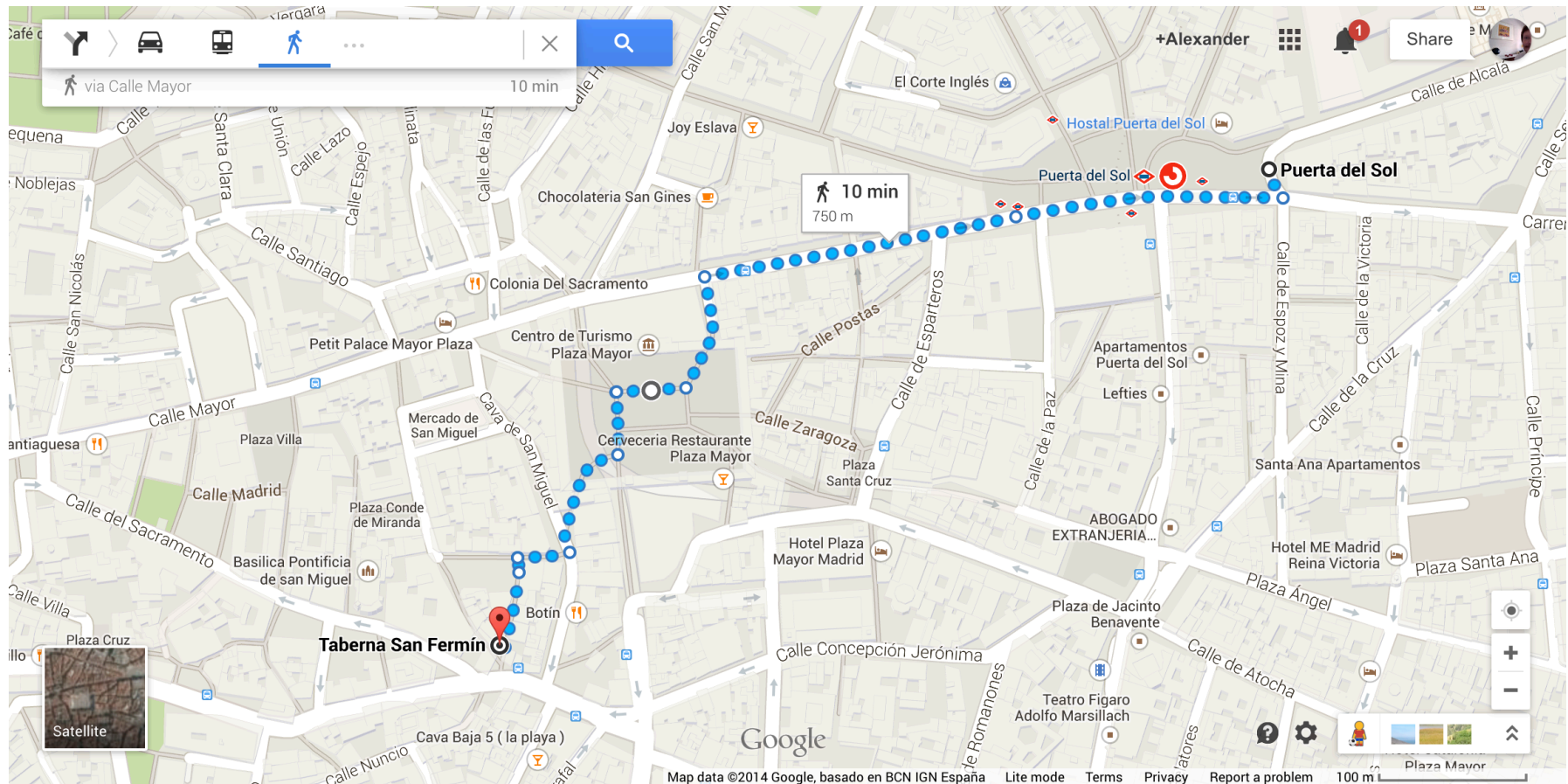
nIFTy Cosmology



practical information

welcome drinks

Monday, 20:00h @ Taberna “San Fermin de Puerta Cerrada”, Calle de Gómez de Mora 1



Network: portal-csic

Username: NIFTY

Password: NIFTY2014

Roxanna Rodriguez:



office: 503 (5th floor of the IFT)

temporary office: B12 (ground floor of the IFT)

3 weeks of *intense work* on everything you always wanted to know about cosmology...

let's get started!

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numerical simulations for large surveys

a workshop on the production of virtual skies

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