

The future of SN host galaxy studies

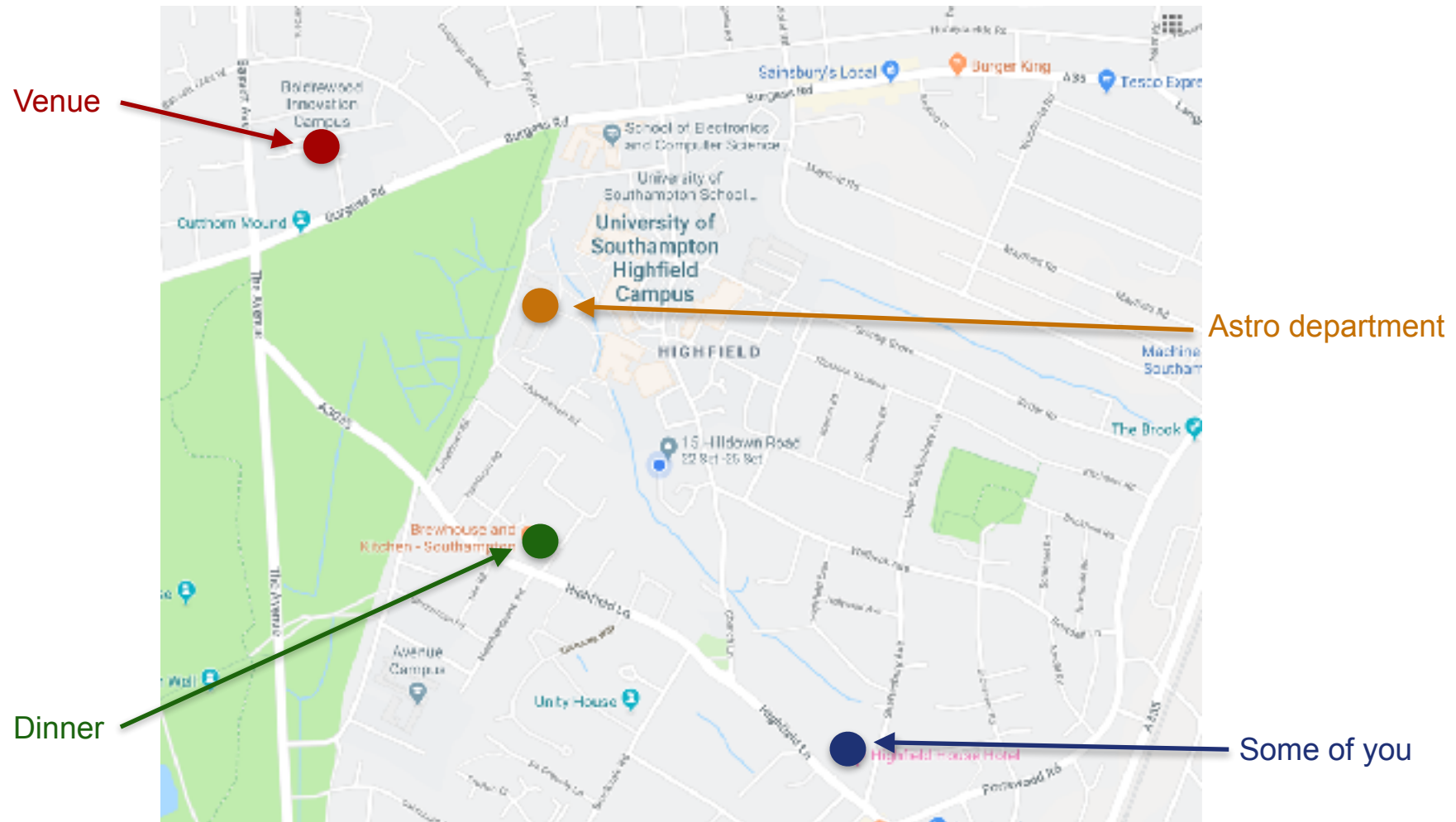
Southampton, 2019 September 23-25

Welcome and introduction

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Locations



Schedule

<https://docs.google.com/document/d/1qABYRSCIRUbRLxQVGIR7yJtBWuGgwNOb1rJdTLdiyeE/edit>

(not in real scale this time!)

Monday, September 23: Galaxies		
Time	Talk	Speaker
9:00-9:20	Presentation + summary v1	
9:30-09:50	IFS surveys of SN hosts: done and todos	Calberg
09:50-10:10	The effect of galaxy inclination on the inferred properties of SN environments	Schady
10:10-10:40	Coffee	
10:40-11:00	SN host galaxies at low and high redshift	Monso
11:00-11:20	The time domain extragalactic survey	Swann
11:20-11:40	SN Host Galaxies in DES	Phil
11:40-12:00	Optical linear polarization of SN host galaxies	González-Gaitán
12:00-14:00	Lunch	
14:00-14:30	ARAA review	Sánchez
14:30-15:00	WWF (Park)	
16:00-17:00	Discussion (Pub)	
18:00-20:00	Dinner Pub	

Tuesday, September 24: SNe Ia		
Time	Talk	Speaker
9:30 - 9:30	SN host: HD, BBC and the ZTF-Cosmology	figault
9:30-10:00	— BBC — or — DES hosts — (both)	Smith
10:00-10:20	Accuracy of environmental tracer and consequence for determining the SN magnitude step	Friday
10:20-11:00	Coffee	
11:00-11:20	Redshift evolution of the SN stretch distribution	Nicolas
11:20-11:40	The Effect of Local Environment on Type Ia Supernovae in the COSMOS Field	Kesley
11:40-12:00	SEDMachine for SN Cosmology: Typing and Obtaining a Redshift for SNe	Kim
12:00-14:00	Lunch	
14:00-16:00	WWF	
16:00-17:00	Discussion	

Wednesday, September 25: CC-SNe; CC+		
Time	Talk	Speaker
9:00 - 9:30	SNe II and their host galaxies	Gallmeier
9:30-10:00	Host galaxies of Type I superluminous supernovae	Chen
10:00-10:20	Core collapse contamination in photometric SN surveys	Vincenzi
10:20-11:00	Coffee	
11:00-11:20	Ongoing work on the host of AT 2018bow with MUSE	Lyman
11:20-11:40	— DES phot CC —	Grayling
11:40-12:00	Point-and-reat remote optical transients: Progenitor implications and ongoing searches	Frohmaler
12:00-14:00	Lunch	
14:00-16:00	Discussion	
16:00-17:00	Future	

Monday: Galaxies

Tuesday: SNe Ia

Wednesday: CCSNe+

19 talks (8:20 hours)

9 hours for discussion

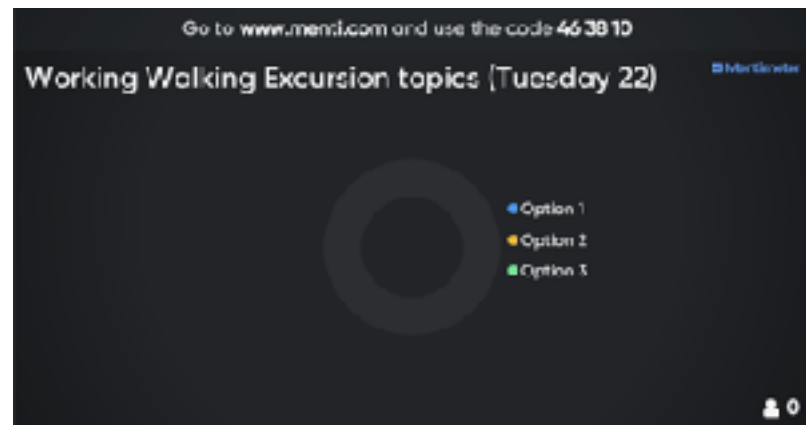
10 hours for food

Discussion

1. After lunch: Topic selection

[menti.com](https://www.menti.com)

748227



2. WWE: Walking Working Excursions

CSP-like, UK weather permitting...

3. Discussion: put together -> overleaf

<https://www.overleaf.com/1553695451bvserfqfwstkd>

Legacy

<https://github.com/amusing-muse/workshop2>

amusing-muse / workshop2

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Code Issues 0 Pull requests 0 Projects 0 Wiki Security Insights Settings

2nd SN hosts with IFS workshop (Southampton, September 23-25) <https://amusing-muse.github.io/workshop2> Edit

Manage topics

47 commits 1 branch 0 releases 1 environment 2 contributors

Branch: master New pull request Create new file Upload files Find File Clone or download

opgutierrez Update index.md Latest commit 3e8e3f1 11 days ago

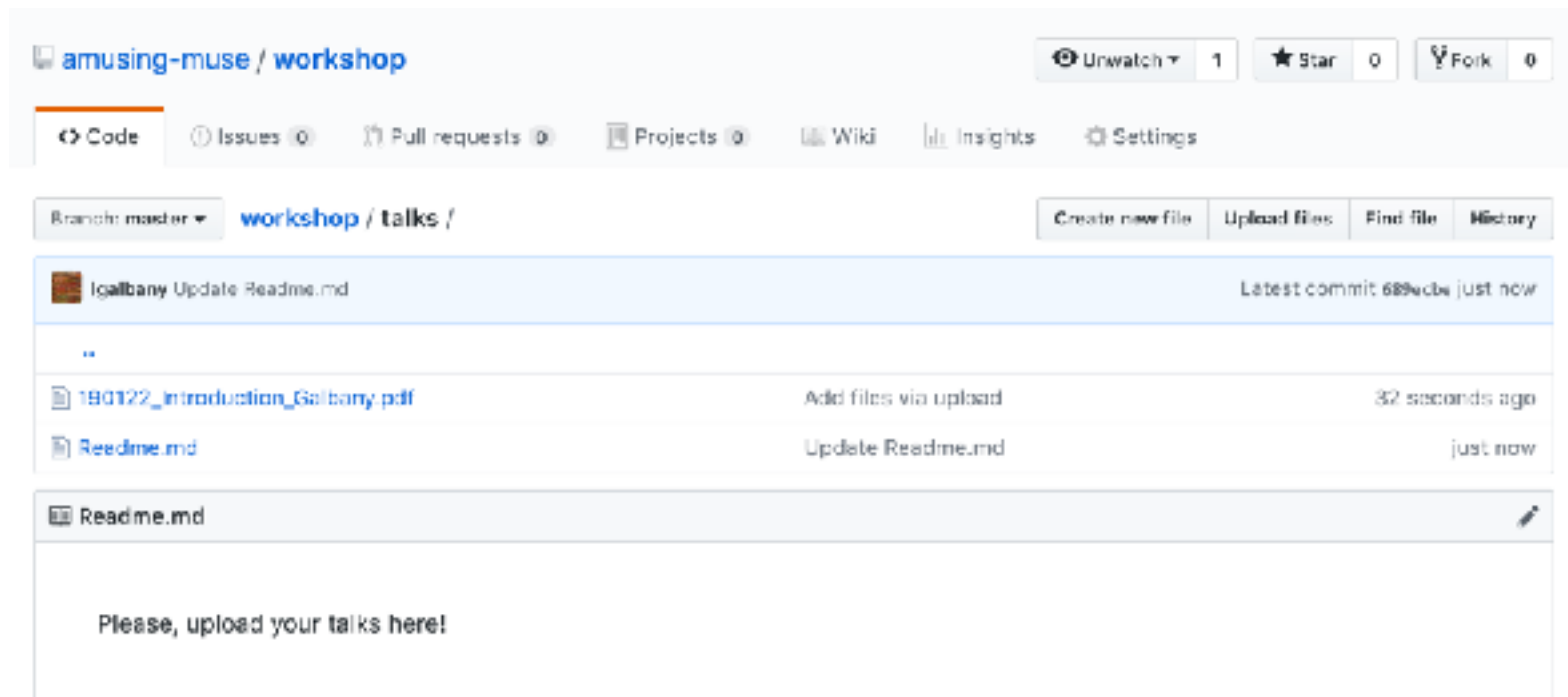
_layouts	first commit	4 months ago
talks	update	4 months ago
Readme.md	Update Readme.md	4 months ago
_config.yml	Update _config.yml	4 months ago
index.md	Update index.md	11 days ago
map.png	Add files via upload	4 months ago

Readme.md

Repository of the 2nd SN host workshop held in Southampton on September 23-25 2019

Legacy

<https://github.com/amusing-muse/workshop2>



Upload your slides+ here

Send me an e-mail for access

The future of SN host galaxy studies

Pittsburgh, 2019 January 22-24

The future of SN host galaxy studies

Southampton, 2019 September 23-25

EUROPEAN ASTRONOMICAL SOCIETY ANNUAL MEETING

EAS 2020 (EWASS)
June 29th to July 3rd, 2020
Leiden, The Netherlands



© Lisa Rothoven

CG, LG, Lisa Kelsey, Joe Anderson

Lorentz
center

Center for Scientific Workshops in All Disciplines

March/April 2021 ??

Important Remarks of the previous meeting

IFU studies

- 1) How to correct to volume-limited samples?
- 2) How do local relations affect interpretation of SN environments: SNe Ic in more metal rich, brighter (more massive?) HII regions???

DES SN Hosts

- 1) To concentrate on other SN types how much does cadence/survey design change?
- 2) Hubble residuals: age/Z etc. How are masses derived?
- 3) How to match data with different PSFs: photometry with IFU etc. How to include GALEX?

Wavelength coverage: UV from HST?
Mikael has for 70 SNe Ia

SNe Ia

- 1) Mass step in DES?
- 2) Progenitors in the context of cosmological fitting?
- 3) BBC, wrong?
- 4) Riess: Age differences - Mass step NOT seen in his sample. Why?

MUSE SAMPLE
Data release?

Metallicity calibrators

Differences between calibrators: - solar metallicity? All O3N2 below solar???

FUTURE SURVEYS

SNe II

as metallicity probes?

Go to www.menti.com and use the code **74 82 27**

 Mentimeter

What do you expect from the workshop?

Pause scroll

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University of Pittsburgh
