Phystat-DM

Intro

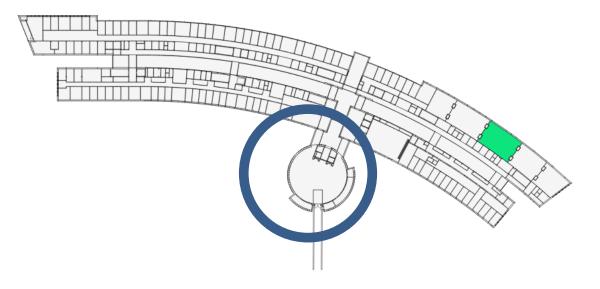
Jan Conrad

Langtidsvarsel for Stockholm

I morgen 31.07.2019	Torsdag 01.08.2019	Fredag 02.08.2019
*	*	*
17°	19°	26°
I	Ţ	1
Delvis skyet. Lett bris, 4 m/s fra nord- nordøst. 0 mm nedbør.	Klarvær. Lett bris, 4 m/s fra nord. 0 mm nedbør.	Lettskyet. Svak vind, 2 m/s fra nordøst. 0 mm nedbør.

Reception/poster session

@18:00



 Poster-presenters: please put up your posters in the afternoon break

15:40 -16:00

Dinner cruise

Boat will leave:

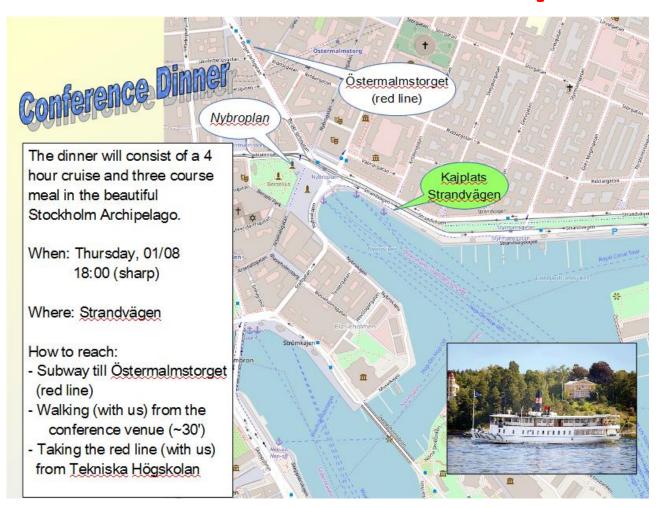
Thursday, August 1, 18.00 SHARP

Trip to the beautiful town of Vaxholm (and back – at least for you)



Some wine and welcome drink included – than you are on your own.

NEW: Dinner cruise departure!



UPDATED ON THE WEB!

Lunches

Lunch Restaurants
in Sibirien

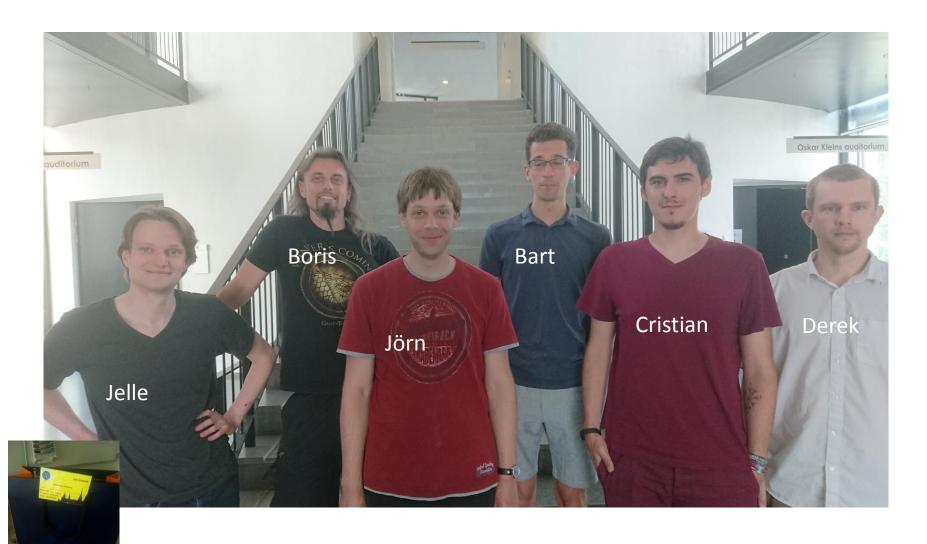
Sibirien is located in the north-east part of Vasastan in Stockholm.

The area offers several lunch restaurants. Most of them offer a special lunch menu.

You can find also a larger selection of restaurants and further information at the Stockholm district guide



Local Crew



Dark Matter and Statistics in Stockholm



Oskar Klein, professor in mathematical physics, Stockholm University (1894-1977)



Harald Cramér, Professor of Statistics (and president) of Stockholm University (1893-1985)

History of PHYSTAT-DM

- After initial discussion (Hugh+) → good idea to converge on a few statistical choices to facilitate inter-experiment comparison.
- Broader discussion under the auspices of PHYSTAT conference series



Louis Lyons

Olaf Behnke



Hugh Lippincott (before)



Constanze Hasterok



Saab

Questions

 Which test statistic? Should we impose overcoverage and if yes how? How to deal with instrumental and external nuisance parameters? When can we use asymptotic results? How do we deal with mismodelled backgrounds? ... and more.

Questions

In case of awkward silence:

Why don't you all go fully-Bayesian?

My first "PHYSTAT" – Durham 2002

COVERAGE OF CONFIDENCE INTERVALS FOR POISSON STATISTICS IN PRESENCE OF SYSTEMATIC UNCERTAINTIES

J. Conrad, O. Botner, A. Hallgren, C. P. de los HerosHigh Energy Physics Division, Uppsala University, Sweden.

- Both relevant and correct, ...just not at the same time
- Nevertheless comments were encouraging!



Enjoy!