

# 3. Overview of the proposed NUFACT2017 Organization and Discussion

3.1 Purpose

3.2 Venue

3.3 Announcement and poster

3.4 Program structure

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3.7 Proceedings

## 3.1 PURPOSE

Next 6 slides: Takashi Kobayashi's slides from preparing NUFACT2016

# Scope of this workshop

- Future
- Accelerator-based experiments
- Using Neutrino beams & muon beams & reactor neutrinos
- Also beam dump and collider searches for heavy neutrinos and LFV processes - Neutrinos Beyond PMNS
- including
  - theoretical aspects
  - supporting measurements
- And technical challenges to realize the future projects mainly on accelerator & beam
  - Detector focused meeting is NNN
- Reasonable/stable fractional mixture of
  - Review of present cutting edge experiments
  - Next generation experiments
  - Future projects

# Scope of these Workshops

- Review of theoretical studies of neutrino and muon physics.
  - current status
  - future directions
- Review of current experimental studies of neutrino physics.
  - accelerator-based neutrino experiments
  - associated beam dump and collider searches
- Review of current experimental studies of muon physics.
- Preparations for near-future experimental studies of neutrinos and muons
  - Design of conventional super-beams
  - Design of associated detectors
- Preparation for future muon-sourced neutrino facilities
  - Accelerator and beam design
  - Detector considerations
  - Associated R&D program
- **DO WE CONTINUE TO CALL THIS SERIES “NuFact”?**

## Special Characteristics of the Workshop

- Rotation across world regions (Europe, Americas, Asia)
- Continuity of questions addressed :  
list of questions is transmitted from one year to the other
- Format encourages original and new contributions
- Emphasizes common issues among various experiments and fields of expertise accelerator, experimental and phenomenological aspects are shared.
- Continuity of Working group conveners  
rotating assignment on a 3-year basis
- Written proceedings

**These features lead to very creative workshops**

# Procedure to decide frequency

- Before Vietnam meeting (SPC phone meetings)
  - Collect material in a single place so that people can see the history of discussions and various arguments
  - One can express opinion/arguments in a SPC phone meetings. → should make 1 slide of summary and put it to the web page
  - Will not make decision and too-detailed discussions through phone. It is very difficult to have effective discussions on this kind of important issue
- At Vietnam
  - At the beginning of the meeting, this issue is raised to the audience and give them chance to consider during the workshop
  - Will have 1hr discussion session with all participants on the scope and frequency of the WS
    - Aug.25(Thu) 1700-1800
  - Final decision in SPC meeting on Aug. 26 (Fri)
    - Try unanimous consensus
    - If not vote.
    - Welcome phone connection and if one cannot join, allow proxy vote to reflect maximum opinions

# Related conferences

- Neutrino conference **Next:04-09 Jun 2018. Heidelberg, Germany**
  - Accelerator-based, terrestrial, astroparticle
  - Main focus on physics results
  - Future program is secondary
  - Once/2years
- Neutrino factory NUFACT **Next:25-30 September 2017, Uppsala, Sweden**
  - Future, accelerator-based neutrino experiments
  - Both technical challenges & physics
  - Every year
- Neutrino oscillation workshop (NOW) **Latest 04-11 Sep 2016. Otranto (Lecce), Italy**
  - Neutrino oscillation (acc, terrestrial, ...)
- Next generation Nucleon decay and Neutrino detector (NNN) **Latest 28-31 Oct 2015. Stony Brook, NY, USA**
  - Main focus on Next generation large detectors
    - Cover accelerator & non-accelerator, astroparticle
  - Also focus on technology development

# Related conferences

- Nuint **Next 25-30 Jun 2017. Toronto, Ontario, Canada**
- WIN **Next 19-24 Jun 2017. Irvine, California, United States**
- Large Neutrino Infrastructure **Latest 30 May - 01 Jun 2016. Tsukuba, Japan**
- Neutrino ?? Carlo Guinty ?
- Neutrino beam instrumentation workshop (NBI)
- The international workshop on future potential of high intensity proton accelerator for particle and nuclear physics (**HINT2015**) **Latest 23-26 Sep 2014. Batavia, IL, USA**
  - Intensity frontier flavor physics ( $\mu$ ,  $\nu$ , K, n, Nucl.)
  - Technical challenges (targetry, ...)
- High Power Targetry Workshop (2014, 2016, 2018,...) **Latest 20-23 May 2014. Batavia, IL, USA**
  - “brings together scientists and engineers from the international community for particle accelerator targets. Applications include neutrino facilities, neutron facilities, muon facilities, radioactive ion beams (RIBs), materials irradiation facilities and precision experiments for rare processes.”
- APS/EPs/JPS/KPS, ...

## 3.2 VENUE

Uppsala University Main Building  
dating from 1887





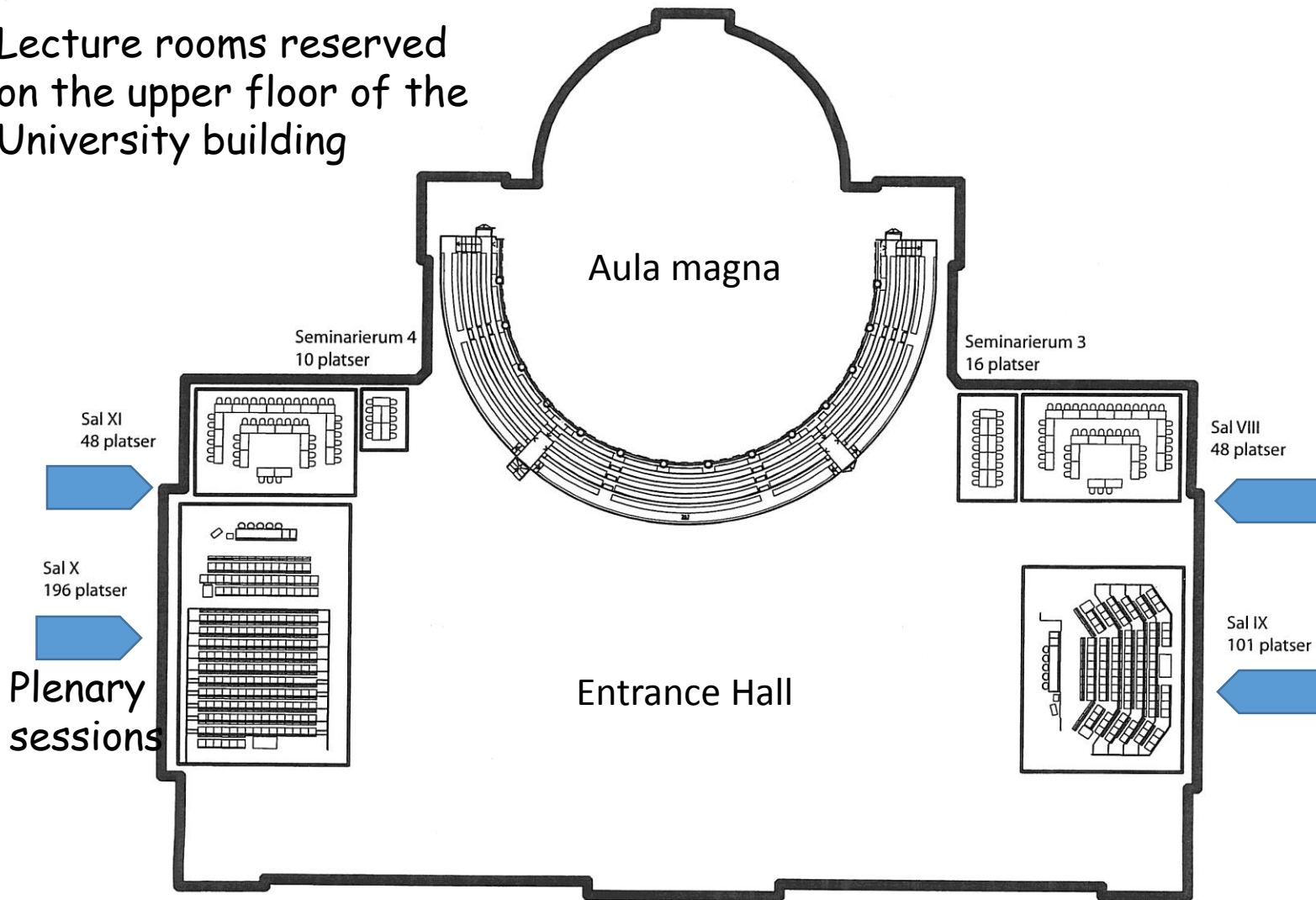


Entrance Hall

Aula Magna



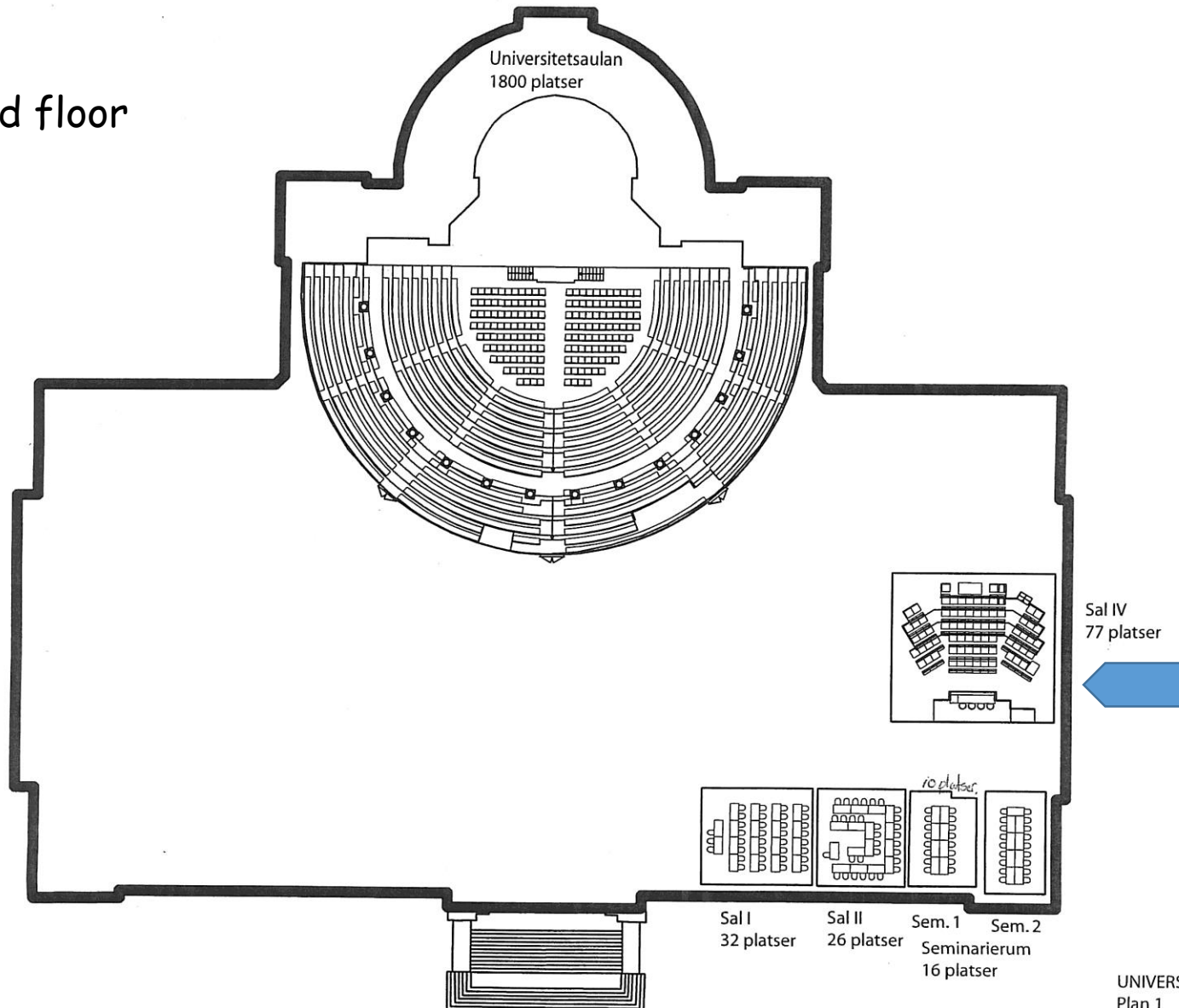
# Lecture rooms reserved on the upper floor of the University building



Sal X for plenary and parallel sessions

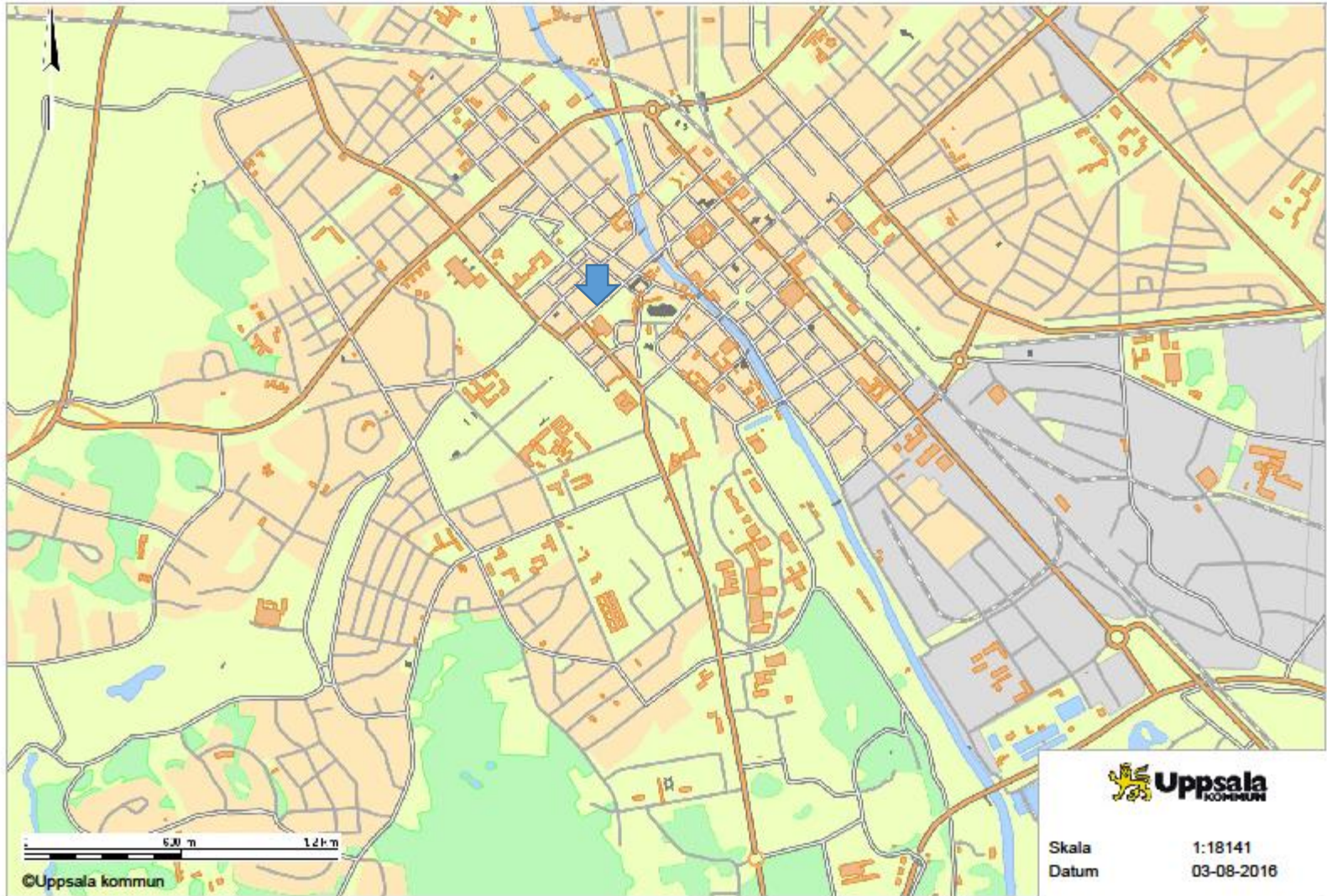
Sal XI, VII, IX and IV (see next slide) for parallel sessions

# Ground floor



UNIVERSITETSHUSET  
Plan 1

## Location of the Uppsala Main University building in central Uppsala



## 3.3 Announcement and poster

From INSPIRE Conference list <https://inspirehep.net/record/1494514?ln=sv>

**The 2017 International Workshop on Neutrinos from Accelerators (NUFACT2017)**  
25-30 Sep 2017. Uppsala University Main Building, Uppsala, Sweden  
CNUM: C17-09-25.1

NUFACT2017 is the nineteenth in the series of yearly international workshops which started in 1999 and which until now was called International Workshop on Neutrino Factories. The change of name to International Workshop on Neutrinos from Accelerators is related to the fact that the workshop program has, over the years, come to include all current and future accelerator and also reactor based neutrino projects, including also muon projects, not only the Neutrino Factory project.

The main goal of the workshop is to review the progress of current and future facilities able to improve on measurements of the properties of neutral and charged lepton flavor violation as well as searches for new phenomena beyond the capabilities of presently planned experiments. The workshop is both interdisciplinary and inter-regional in that experimenters, theorists and accelerator physicists from the Asian, American and European regions share expertise with the common goal of reviewing the results of currently operating experiments and designing the next generation of experiments.

The NUFAC 2017 workshop is divided into five Working Groups covering the following topics:  
Working Group 1: Neutrino Oscillation Physics  
Working Group 2: Neutrino Scattering Physics  
Working Group 3: Accelerator Physics  
Working Group 4: Muon Physics  
Working Group 5: Neutrinos Beyond PMNS

# NUFACT 2017

25-30 Sep 2017. Uppsala University Main Building, Uppsala, Sweden



## 3.4 Program structure

- The program of NUFACT2014 124 available at:

<https://indico.cern.ch/event/300521/timetable/#all.detailed>

- The program of NUFACT2015 available at:

<https://indico.fnal.gov/conferenceTimeTable.py?confId=8903#20150810>

- The program of NUFACT2016 available at:

<http://vietnam.in2p3.fr/2016/nufact/program.php>

- A program structure for NUFACT2017, copied from NUFACT2016, available at:

<http://melba.its.uu.se//conferenceTimeTable.py?confId=324#20170925>

# 3.5 Budget

Number of participants

NUFACT2014 124

<u>Budget for NuFact conference in Uppsala 2017 for number of participants:</u>				125
<u>Income</u>		unit cost	times	
Participant fees		4500	1	562500
COST Action CA15139				95000
Other funding sources				60000
Sum income			SEK	<b>717500</b>
<u>Costs</u>				
ACS financial administration				8000
ACS participant administration				36000
ACS project coordination				42000
Rent for session halls				230000
General (stationery, copies, office supplies)				20000
Coffees		60	10	75000
Reception		300	1	37500
Banquet		550	1	68750
Boat excursion with buffet		700	1	87500
SPC dinner 20 persons		350	1	7000
Support for participants				60000
Proceedings				45000
Sum costs			SEK	<b>716750</b>
In EURO (1 EURO=		9.79 SEK)	EUR	73212
In USD (1 USD=		9.22 SEK)	USD	77739
ACS = Academic Conference Serviv at Uppsala University				



## 3.6 Social program

Banquet at the Stockholm Student Nation n Uppsala



## Boat excursion with m/s Kung Carl Gustaf to the Skokloster castle



## 3.7 Proceedings

- Proceedings of Science, PoS
  - Open Access
  - Unlimited number of pages
  - Up to 200 papers (for this prize)
    - self mode: (we do the job)
      - 2'200 EUR
    - help mode: (they do the job)
      - 4'500 EUR
- IOP Journal of Physics: Conference Series
  - Open Access
  - Unlimited number of pages
  - 36 EUR per paper
    - 7'200 EUR for 200 contributions