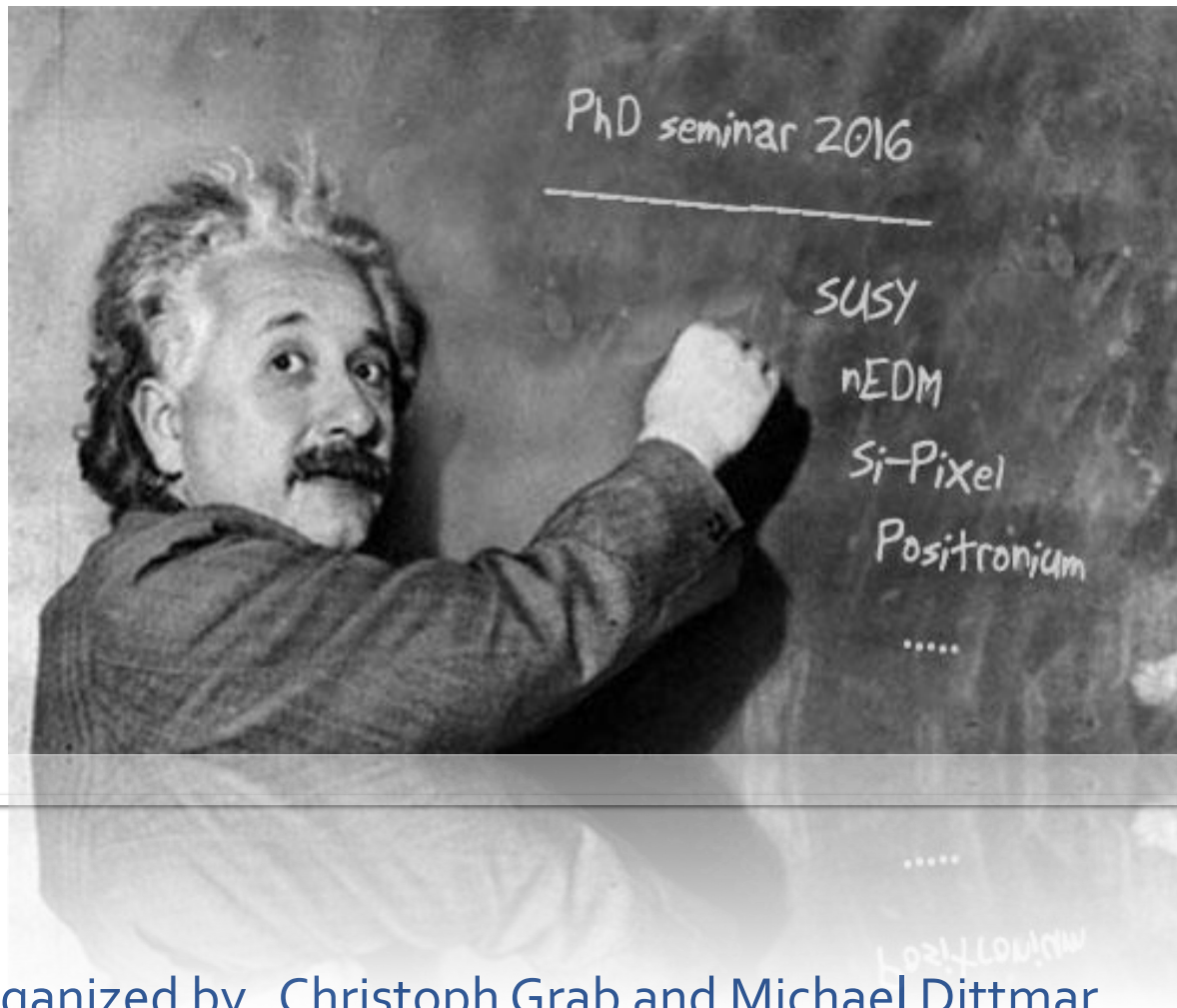


PhD Seminar 2016

ETHZ + UZH






Organized by Christoph Grab and Michael Dittmar
HS 2016 24/25.11.2016

Agenda Thursday








Go to day ▾

Thursday, 24 November 2016

- | | | |
|---------------|---|---|
| 09:45 - 10:00 | Welcome and Introduction PhD Seminar 2016 C. Grab 15' | ▾ |
| | <i>Chairperson:</i> | |
| 10:00 - 10:30 | R. del Burgo: Testing the new electronics of the CMS phase I upgrade pixel detector 30' | ▾ |
| 10:30 - 11:00 | Kuhar: Results from the hard-X ray telescope NuSTAR 30' | ▾ |
| 11:00 - 11:15 | coffee break ← | |
| 11:15 - 11:45 | C. Vigo: Experiment on Positronium Invisible decay Channels (EPIC) 30' | ▾ |
| 11:45 - 12:15 | L. Gerchow: Ascent of advanced material characterisation with positrons 30' | ▾ |
| 12:15 - 12:45 | M. Reichmann: Diamond Test beam work 30' | ▾ |
| 12:45 - 13:59 | Lunch Break ← | |
| 13:59 - 14:00 | Afternoon Session Chairperson: Gregor Kasieczka 1' | ▾ |
| 14:00 - 14:30 | M. Meinhard: CMS Pixel Upgrade 30' | ▾ |
| | Material: Slides  | |
| 14:30 - 15:00 | G. Rauco: Distinguishing quark and gluon jets in the CMS experiment 30' | ▾ |
| 15:00 - 15:30 | T. Klijnsma: α_s from the top quark pair production cross section 30' | ▾ |
| 15:30 - 16:00 | Leonora Vesterbacka: Search for Supersymmetry with Opposite Sign Dilepton 30' | ▾ |
| 16:00 - 16:15 | coffee break 15' ← | |
| 16:15 - 16:45 | Constantin Heidegger Search for Electroweak Production of Supersymmetry in Final States with Multiple Leptons 30' | ▾ |
| | Material: Slides  | |
| 16:45 - 17:15 | Michael Heiss: PhySES measurement of the Positronium Hyperfine Structure 30' | ▾ |
| | Material: Slides  | |
| 17:15 - 17:45 | Andrea Mauri: Search for weakly interacting long living scalar particles in the decay $B^+ \rightarrow K \mu^+ \mu^-$ at LHCb 30' | ▾ |
| 17:45 - 18:15 | Jannis Fischer: Recent developments in the SAFIR project: towards the first prototype 30' | ▾ |
| 18:15 - 19:00 | Apero 45' ← | ▾ |

Agenda Friday

Friday, 25 November 2016

- 08:55 - 09:00 Chairperson: Andreas Eggenberger 5'
- 09:00 - 09:30 Agnieszka Ilnicka: "Modeling BSM effects on the Higgs pT spectrum in a EFT approach 30'
Material: [Slides](#) 
- 09:30 - 10:00 I. Belosevic muCool: Development of a novel high-brightness low-energy muon beam line 30'
- 10:00 - 10:30 Hayk Sargsyan: "Transverse-momentum resummation for top-quark pair production at hadron colliders" 30'
- 10:30 - 11:00 Valeria Rizzoglio: Uncertainty Quantification Analysis for OPTIS2 30'
- 11:00 - 11:30 coffee break 30' 
- 11:30 - 12:00 Klaus-Ulrich Miltenberger: MeV-SIMS with the Capillary Heavy Ion MicroProbe 30'
Material: [Slides](#) 
- 12:00 - 12:30 Christiane Yeman: Direct Radiocarbon Analysis of Carbonates by Laser Ablation coupled with AMS 30'
- 12:30 - 13:00 Gunther Wichmann: Towards improved 1S-2S spectroscopy of positronium 30'
Material: [Slides](#) 
- 13:00 - 13:59 Lunch Break 
- 13:59 - 14:00 Chairperson: Jochen Krempel 1'
- 14:00 - 14:30 Sybille Komposch A laser based mercury magnetometer for the nEDM experiment at PSI 30'
- 14:30 - 15:00 M. Rawlik Looking for axions with nEDM experiments 30'
Material: [Slides](#) 
- 15:00 - 15:15 coffee break 15' 
- 15:15 - 15:45 P. Mohanmurthy Systematics related to Neutron Counting in PSI nEDM 30'
- 15:45 - 16:15 Iaroslava Bezshyiko: Background studies at the SHiP experiment 30'

General Comments (I)

- Assigned are 30 minutes total for all speakers
→ 20 min + 10 min for discussions
- You get warnings at 5 minutes and 0 minutes to go.
- Talks should all be online on :
<https://indico.phys.ethz.ch/conferenceDisplay.py?confId=10>
- **send talk to Michael for uploading.**



General Comments (II)

■ Content:

- Think about **what you want** the others to learn from you.
- **Amount of details:** concepts versus many technical details.
- **Results** : Concentrate on the essential points
- **Summary:** what's the "take-home physics message"?



■ Style:

- Figures: explain figures and give audience time to digest
- Visual aids: slides, pointer, ... not too many distractions
- Speaking voice: loud, clear, slow; use pauses and emphases.
- Body language: keep eye contact; act as natural as possible. watch your posture.

■ Questions:

- When you ask questions, give audience time to think
- Repeat question or paraphrase it

Seminar means: presenting & discussing work



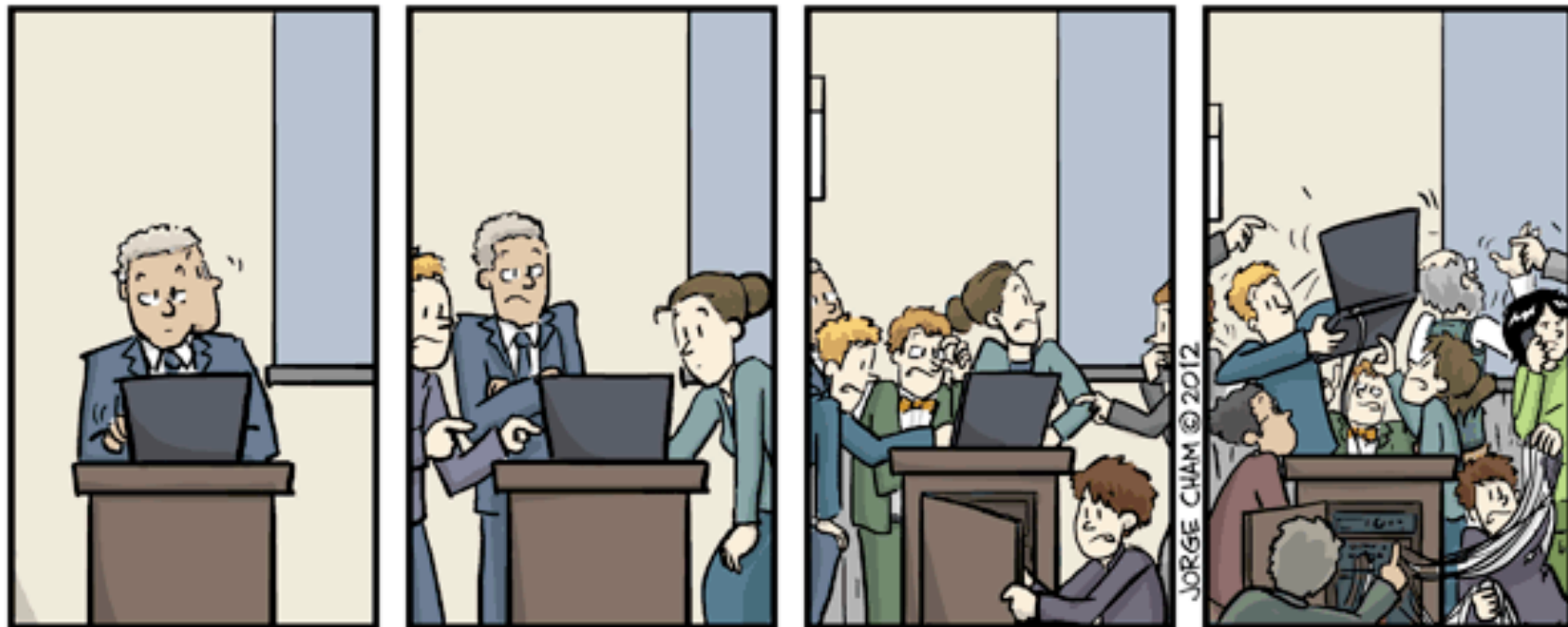
General Comments (II)

We want to stimulate discussions and questions.

- I suggest a few methods to do this:
 - For each talk, ONE row of the audience is charged with ASKING at least 3 scientific questions.
 - and also has to come up with 2 non-trivial comments about the presentation style – in constructive manner !
 - Of course everybody else is equally invited to ask questions or make comments.
 - Other suggestions on how to increase discussions?

In terms of visual aids ..

Q: HOW MANY PH.D.'S DOES IT TAKE TO GET A POWERPOINT PRESENTATION TO WORK?



WWW.PHDCOMICS.COM

ANSWER: $(n+1)$

WHERE n = THE NUMBER OF ACADEMICS IN THE ROOM WHO THINK THEY KNOW HOW TO FIX IT, AND 1 = THE PERSON WHO FINALLY CALLS THE A/V TECHNICIAN.

Presentation Checksheet (I)

1. Structure of presentation

- Logic and Structure: Does the talk have a clear beginning?
Does the talk follow a logical sequence? Is the logic easy to follow?
Is the inner logic explained and made transparent where necessary (meta-level)?
Are the individual elements in the main part of the talk clearly distinguishable (i.e. by numbers, bullets, colour-coding or subtitles?)
Are the main points explained understandably?
Does the talk have a clear ending with a clear message?
- Emphasis: Does the speaker stick to the main topic?
Does the speaker spend most time on main points or on details?
- Guidance: Is the audience guided step by step through the main messages of talk?
- Message: Is the main goal of the talk and of the speaker apparent right from start?

2. Use of visual aids – Questions of Style

- Technics: Is the speaker comfortable with the use of the projector and pointer?
Is there a "battle" or do speaker and technology work well together?
- Content: Do the overheads support the main messages of the speaker?
Is the main message of each overhead immediately apparent?
Is an appropriate amount of material on each overhead?
Do I have enough time to digest all the material on each overhead?
- Style: Do the structuring elements support the message?
Are colour and forms applied appropriately
- Guidance: Am I guided through the overhead?
Are technical terms, abbreviations, axes of graphs etc. explained?
- Attention: Does the use of visual aids help me concentrate on the talk?
Where is the focus of my attention? Mainly on the visual aids or on the speaker, or both?

Presentation Checksheet (II)

3. Speaking voice

- Tempo: basic speed, changes in tempo?
- Pauses: length, placement, number?
- Volume: loud, soft, "private" voice or full voice that carries?
- Diction: Are the words easy to understand? Are words pronounced correctly?
Staccato or legato?
Are the sentences short or long, simple or "constructed"?
- Emphasis: Are certain words or phrases emphasised? Which ones?
Does the emphasis support the logic of the talk?
Are there elements of suspense in the talk?
- Melody: monotonous, lively, modulated? Are sentences and logical units "finished off" or left dangling?
- Comprehension: Is the information given in digestible portions?
Are the sentences short or long?
Simply constructed or complicated?
Does the speaker use vocabulary I can understand?

4. Body language

- Posture: stiff, slouchy, relaxed, reserved, confident, open, closed. Weight on one or both feet?
- Gestures: natural, stiff, big, small, few, many, fast, slow, repertoire.
- Eye contact: amount, roaming or fixed, talking to floor, overhead projector or ceiling.
Is one area or person fixed upon or ignored?
- Enthusiasm: Do I sense the speaker's enthusiasm about the topic?
Does his excitement catch on?