

# **Project Group Presentation**

**Winter Term 2018/19**

**Master Computer Science & Master Computer Engineering**

**Matthias Fischer**

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- Monday, July 16th, 4:15pm,
- Rooms P1.4.01 and P1.4.08

# Agenda

## Joint Session for CE + CS Students

**16:15** Why Project Groups? Registration and Requirements

**16:30** [Mixed Project Groups](#) – Room: **P1.4.01**

After the last talk: CE students move to **P1.4.08** CS students stay here

## Parallel Sessions

**17:20** [CS Project Groups](#) – Room: **P1.4.01**

**17:20** [CE Project Groups](#) – Room: **P1.4.08**

## Discussion Session

If you plan to take part in a group in Winter Term 2018/19, please stay here!

**17:40 (CS), 18:00 (CE):** In front of or in room **P1.4.01, P1.4.08**

- build small groups for questions, discussion, application, declare personal interest
- **CE students (room P1.4.08)** can first discuss with CE advisors and afterwards come back to **P1.4.01**
- **Mixed PG advisors: Please wait for CE students !!!**

## Mixed Project Groups (2x10 ECTS, 2x9 ECTS)

accept both  
Computer Science and  
Computer Engineering  
students

## CS Project Groups (2x10 ECTS)

accept  
Computer Science  
students

## CE Project Groups (2x9 ECTS)

accept Computer  
Engineering students  
(and EE students, not  
the concern today)

## Mixed Project Groups (2x10 ECTS, 2x9 ECTS)

16:30	<b>Management of ServiCes Across MultipLE clouds (SCrAMbLE)</b> Computer Networks
16:40	<b>Embedded Machine Learning II (EML II)</b> Computer Engineering
16:50	<b>Cooperative Urban Transport Environment (CUTE)</b> Cooperative Mobile Systems
17:00	<b>Exploring Paderborn 8</b> Database and Information Systems (SICP/DBIS)
17:10	<b>Customizing Neural Networks on FPGAs (CustoNN2)</b> High-Performance IT Systems

## CS Project Groups (2x10 ECTS)

17:20	<b>Data Science Suite</b> Data Science
17:30	<b>Visual Interactive Consistency in Tolerant Rule-Based Systems (VICToRy)</b> Database and Information Systems

## CE Project Groups (2x9 ECTS)

17:20	<b>Brain sensing with EEG and signal processing</b> Signal and System Theory
17:30	<b>Signal Processing and Machine Learning over Wireless Acoustic Sensor Networks</b> Communications Engineering
17:40	<b>Disaster Response Robots</b> GET Lab - Cognitive Systems Engineering
17:50	<b>Design of Measurement and Analysis Software</b> Measurement Engineering

# Definition

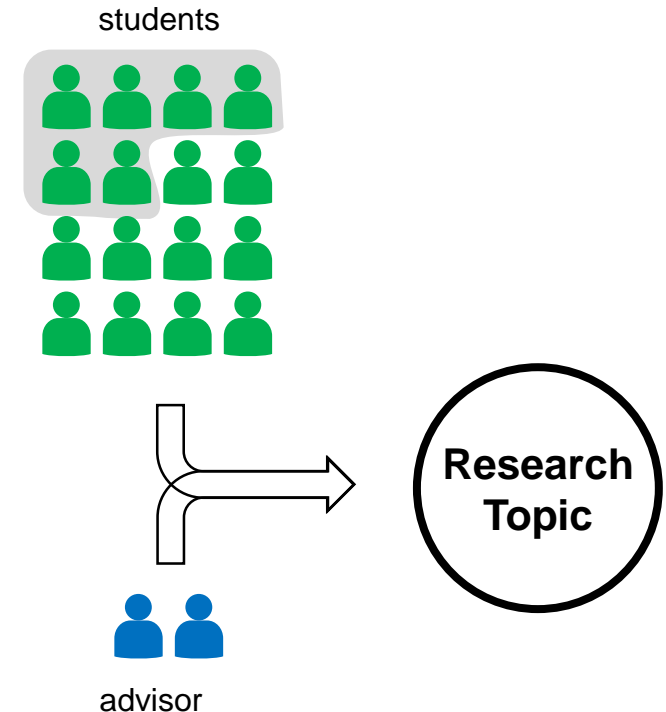
## Project Group

**Group** of about 8 – 16 students working together on a research-related project

- Upper limit 16 holds for all groups!
- Lower limit 6 in particular situations!

### Research topics

from the advisor's field of interest



Duration: **one year** (two terms)

Default language is English.

If all participating students agree, the group can be held in German.

# Aims: Improvement of character building (1/2)

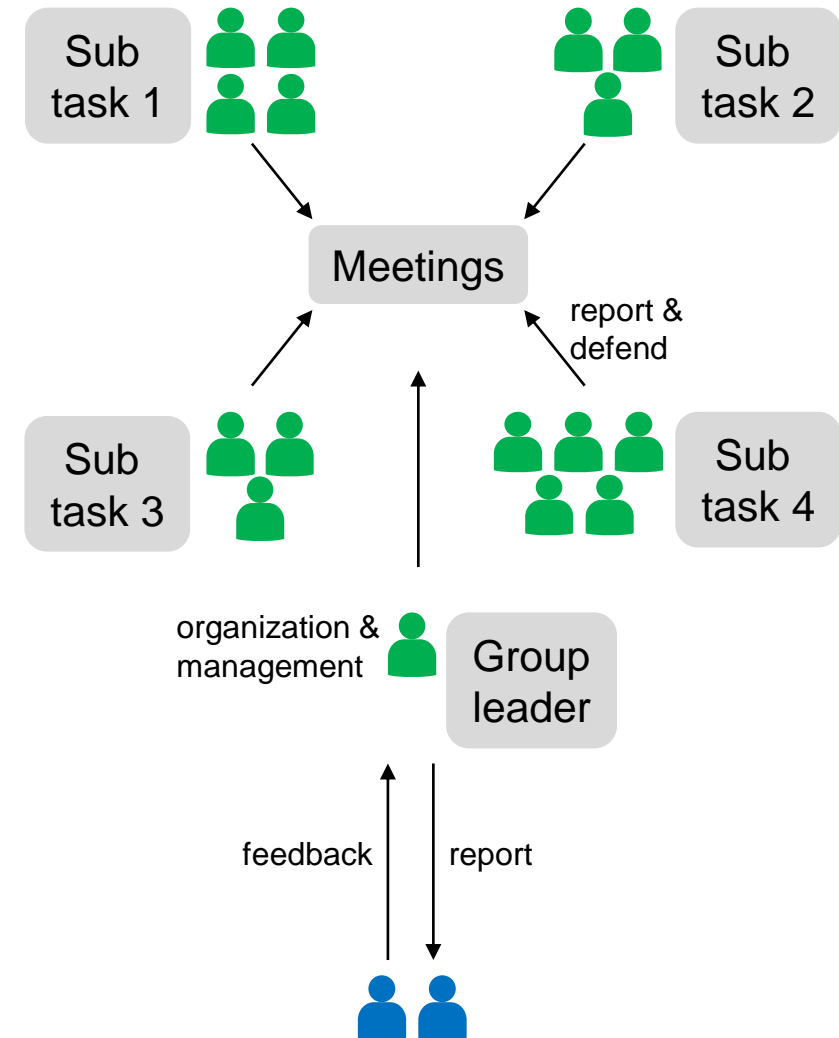
## Project Group

Practical experience in **teamwork** and **organization** of a project

- Build your own **personnel structure**, similarly to an industrial team
- **Delegation** of sub tasks and responsibilities to subgroups

**Division of tasks** involves

- the necessity to **report** at regular intervals
- and to **defend** the own work

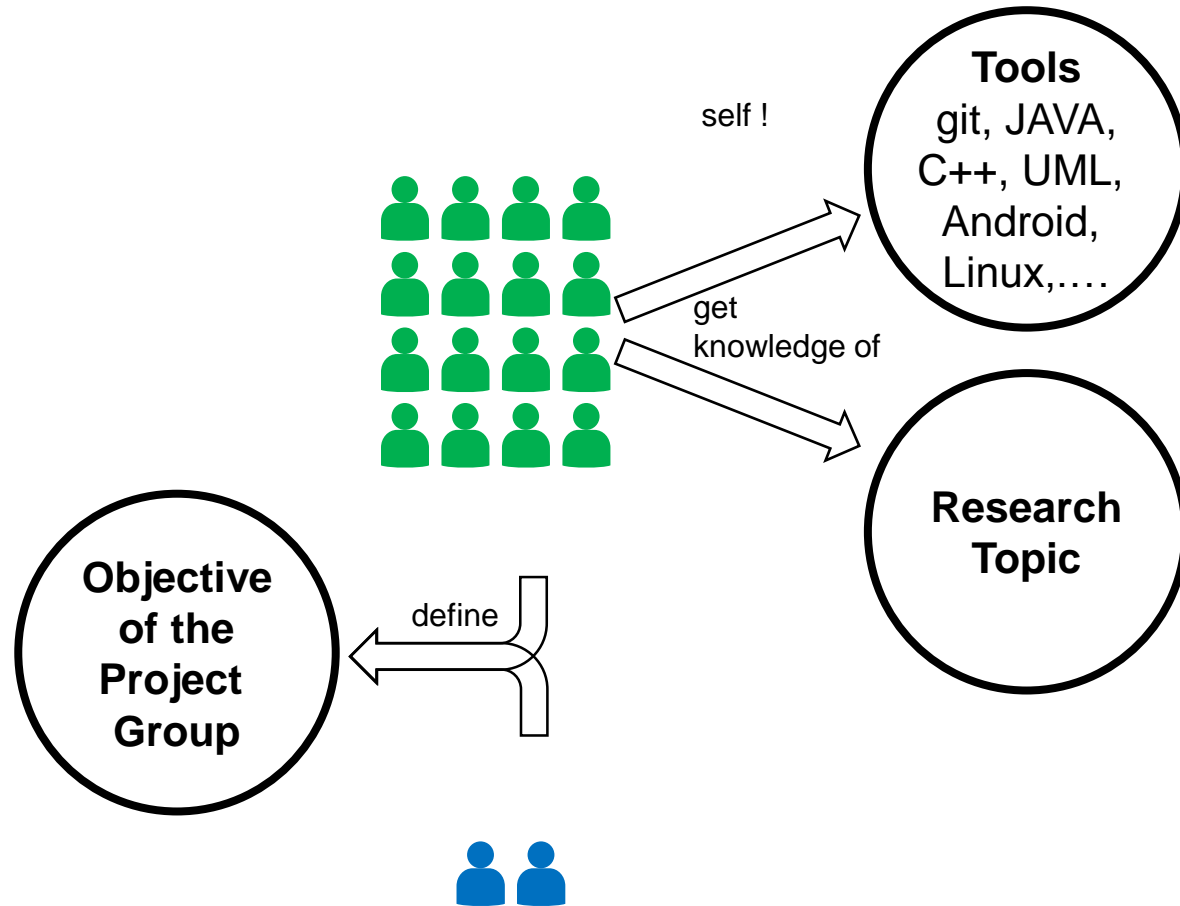


# Aims: Improvement of character building (2/2)

## Project Group

### Self-organization

- **Define the aims** on your own together with the advisors
- **Self training** with necessary tools, methods and approaches



# Outcome

## Project Group

### Your our outcome



### You learn

- systematic and methodic working
- comprehensive development processes (including final report and documentation)

### You

- will be intensively prepared for industrial practice
- approach current research topics  
(often students write their **master's theses** in the same field and research topic)

### Advisor's outcome



- Project groups are a means for research
- Implementation and execution of research

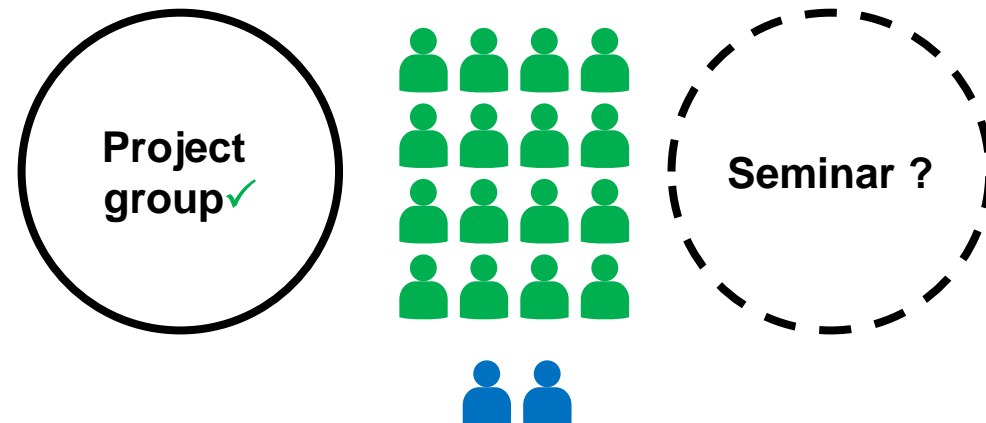
# Seminar

## Project Group

### Seminar as parallel course

- the organizer can provide a seminar parallel to the project group
- the seminar is a separate course
- the organizer determines whether participation is mandatory or optional
- the organizer decides whether such a seminar is available or not

Please note the announcements of the organizer





# Requirements for Participation (1/2)

## Project Group

Project group **can only be started**  
when the **bachelor's degree** has been successfully **completed**

**Bachelor's degree** is successfully **completed**, when

- all examinations have been passed and
- the thesis' 4.0 confirmation is handed over to the examination secretariat (Lessmann, Guhlich,...)
  - by **31 March** (PGs starting summer term) and
  - by **30 September** (PGs starting winter term)

# Requirements for Participation (2/2)

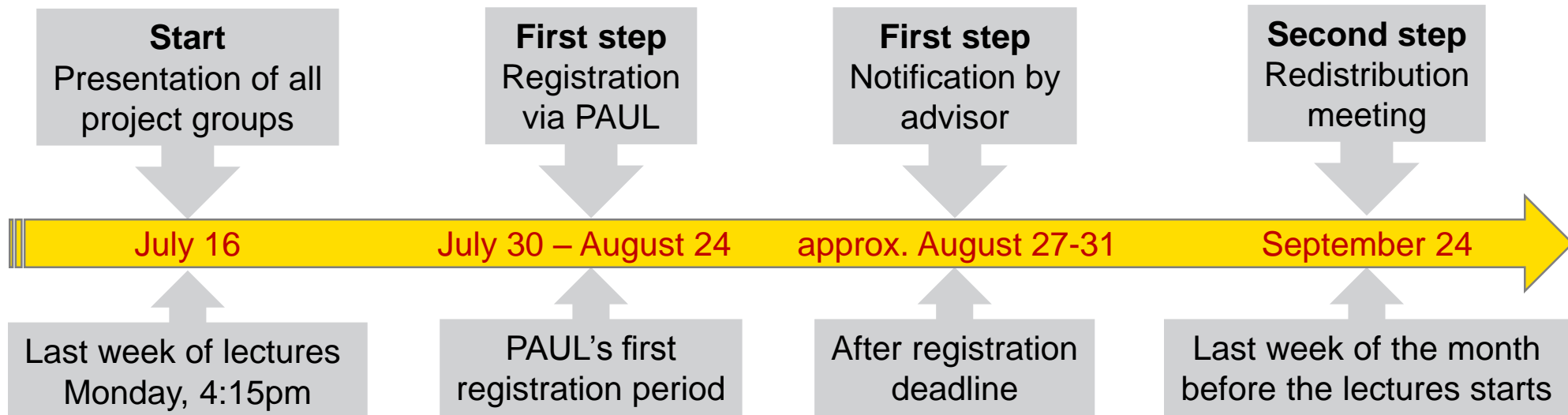
## Project Group

Project group **can only be started** when the **enrollment in the master's program** has been **completed**

Students of the bachelor's program,

- who reach the 4.0 confirmation or examinations only on the 31st of March or on the 30th of September,
- must therefore enroll for the Master's program in the relevant period of the change of studies (**by 21 September, see uni webpage**)
- you can submit proof of successful completion of your studies (Bachelor's certificate and deed or a corresponding certificate from the office responsible for issuing the deed) **by 31 October, see uni webpage**

# Registration & how to get a group (1/5)



## Registration procedure consists of (only if necessary) two steps

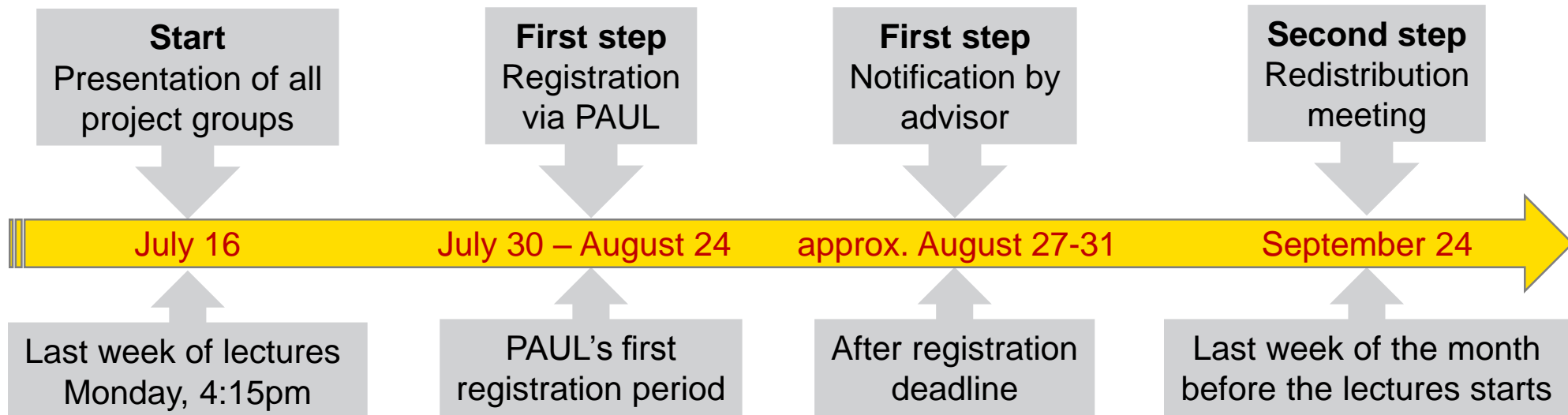
### First step: Registration

- Choose your preferred project group and register via PAUL
- When? PAUL's **first** Registration period
- Register **ONLY** your **FIRST CHOICE** in PAUL!

**We monitor the registration phase!**

**If you register for more than ONE project group, we will delete ALL your registrations**

# Registration & how to get a group (2/5)

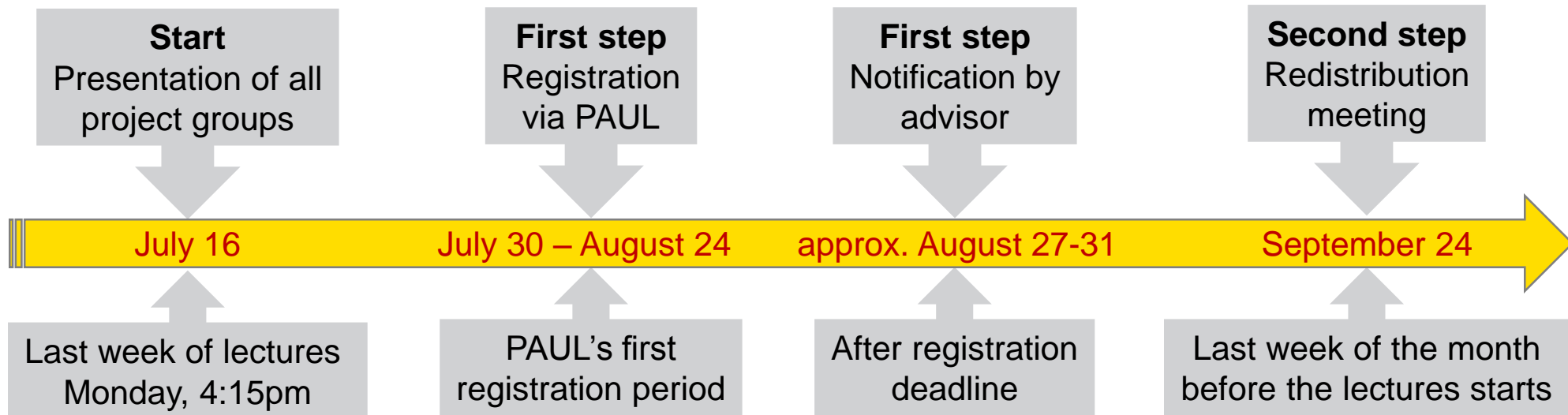


## First step: Notification

After registration deadline

- You will be informed by project group's advisor !
- Project group will be: **Green-PG** or **Yellow-PG** or **Red-PG**

# Registration & how to get a group (3/5)



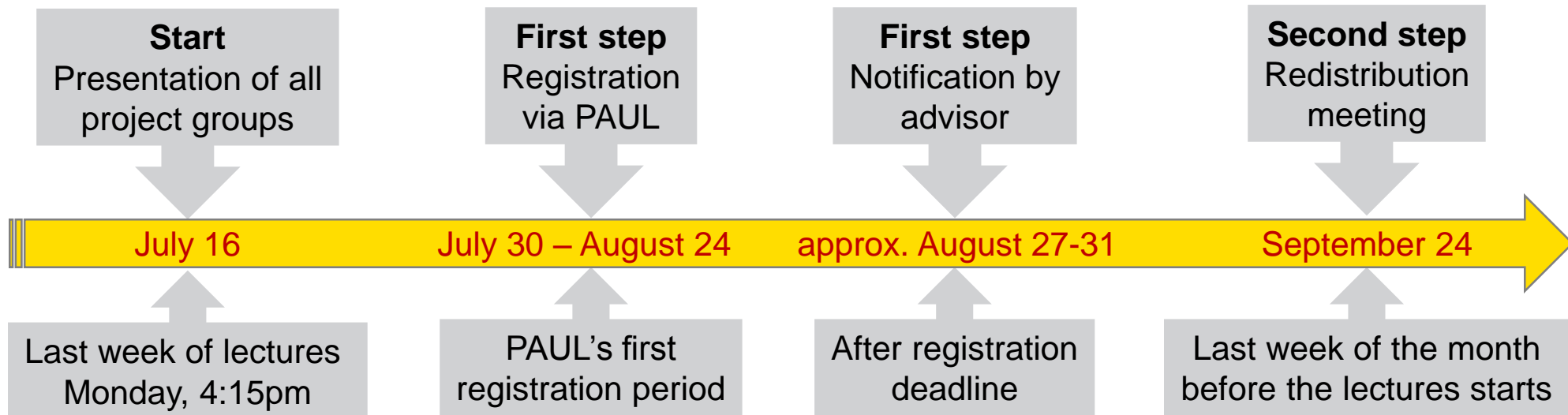
## Project groups with enough participants

- The project group will take place: **Green-PG**
- Registration is finished, be happy! (except students who were rejected due to over-occupation)

## Project groups with too few participants

- The project group is canceled (**Red-PG**),
- or the decision is still pending (**Yellow-PG**)
- Proceed with the second step, don't worry!

# Registration & how to get a group (4/5)



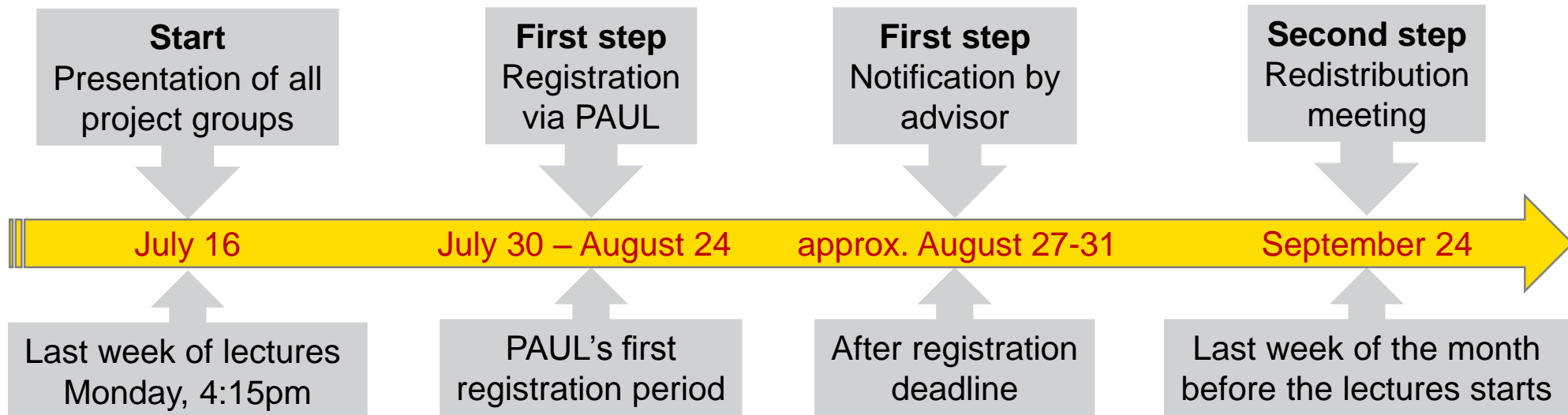
## Second step: Redistribution meeting

### Participants

- Students of **Red-PGs**/**Yellow-PGs**
- Students of **Green-PGs**, who were rejected due to over-occupation
- **Yellow** and all **Green** advisors

Students who cannot attend the meeting can send a fellow student to represent them, or they can hand in a wish list and are represented by me or a student council's proxy (Fachschaft).

# Registration & how to get a group (5/5)



## Second step: Redistribution meeting

### Meeting's objectives

- Assignment of project group capacities to students of PGs with under-/over-occupation
- Students and advisors try to realize project group preferences to the effect that pending yellow project groups can be switched to red or green, and that all students can participate in a project group.
- The reallocated students are rebooked manually by the PAUL administration.

# More Information, Webpages, Links, pdf Files

**Main web page for project groups:** <http://www.upb.de/cs/pg>

Contains:

- **Listing** of all project groups (each listed group points to advisor's PG web page)
- Information of the overall **registration and notification process**  
see pdf <http://cs.upb.de/fileadmin/informatik/Studium/Studienelemente/Projektgruppen/PG.pdf>
- **Guidelines for project groups** (Rahmenrichtlinien für Projektgruppen)  
follow the links „guidelines for project groups / Rahmenrichtlinien für Projektgruppen“  
Please read it before you start a project group!

Students who cannot apply electronically via PAUL (e.g. due to missing master status) register in written form via the printed form

- German: "Antrag auf Zulassung zu einer Lehrveranstaltung in PAUL"  
[http://www.upb.de/fileadmin/paul-info/Formulare/Antrag\\_Anmeldung.pdf](http://www.upb.de/fileadmin/paul-info/Formulare/Antrag_Anmeldung.pdf)
- English: "Application for admission to a course "  
[http://www.upb.de/fileadmin/paul-info/Formulare/Antrag\\_Anmeldung\\_english.pdf](http://www.upb.de/fileadmin/paul-info/Formulare/Antrag_Anmeldung_english.pdf)
- both on: <http://www.upb.de/studium/paul-info/formulare>