ODM Roadmap
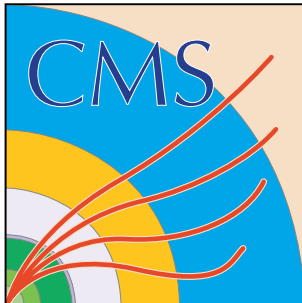
Andreas Mussgiller

Tracker Upgrade Meeting
18/01/2013
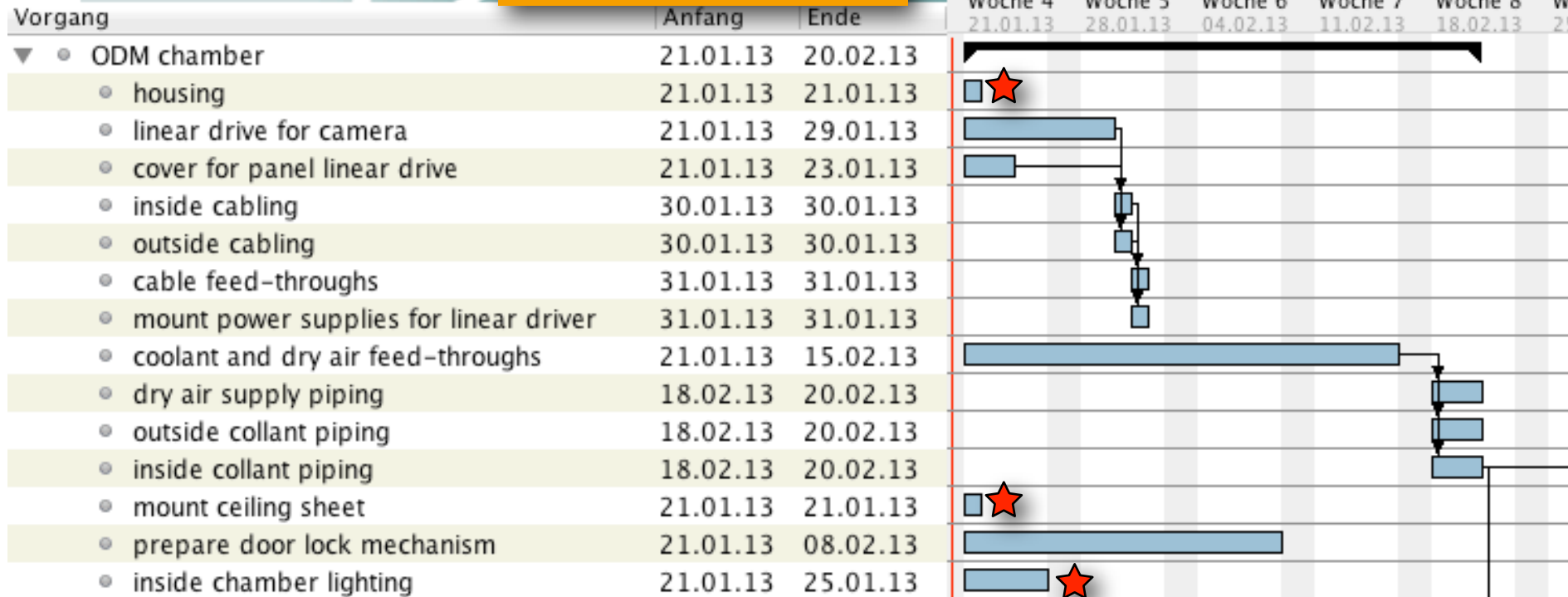
ODM Chamber

emphesis on dependencies not dates and times

Vorgang	Anfang	Ende
ODM chamber	21.01.13	20.02.13
housing	21.01.13	21.01.13
linear drive for camera	21.01.13	29.01.13
cover for panel linear drive	21.01.13	23.01.13
inside cabling	30.01.13	30.01.13
outside cabling	30.01.13	30.01.13
cable feed-throughs	31.01.13	31.01.13
mount power supplies for linear driver	31.01.13	31.01.13
coolant and dry air feed-throughs	21.01.13	15.02.13
dry air supply piping	18.02.13	20.02.13
outside collant piping	18.02.13	20.02.13
inside collant piping	18.02.13	20.02.13
mount ceiling sheet	21.01.13	21.01.13
prepare door lock mechanism	21.01.13	08.02.13
inside chamber lighting	21.01.13	25.01.13

⭐ can start right away

> linear drive for LED panel already installed

> coolant feed-throughs need to be ordered and thermally insulated from housing

> door lock mechanism needs to be designed

ODM Calibration

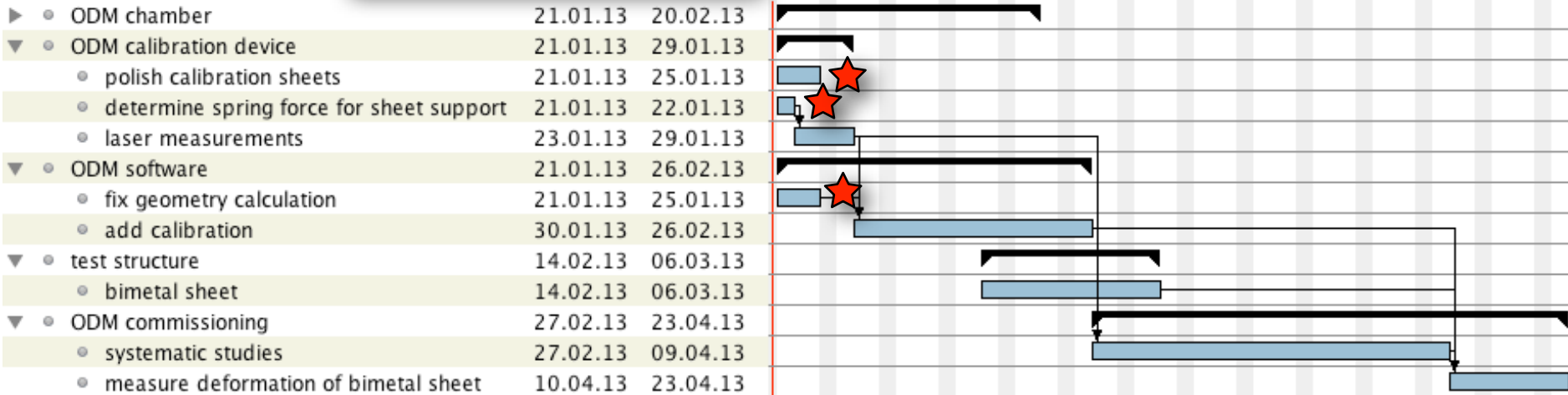emphasis on dependencies not dates and times

Vorgang	Anfang	Ende
ODM chamber	21.01.13	20.02.13
ODM calibration device	21.01.13	29.01.13
polish calibration sheets	21.01.13	25.01.13
determine spring force for sheet support	21.01.13	22.01.13
laser measurements	23.01.13	29.01.13
ODM software	21.01.13	26.02.13
fix geometry calculation	21.01.13	25.01.13
add calibration	30.01.13	26.02.13
test structure	14.02.13	06.03.13
bimetal sheet	14.02.13	06.03.13
ODM commissioning	27.02.13	23.04.13
systematic studies	27.02.13	09.04.13
measure deformation of bimetal sheet	10.04.13	23.04.13

★ can start right away

> calibration sheets not working at the moment - need to be polished
> holding mechanism for calibration sheets needs to be improved
  - applying a weight is not enough - spring seems to be the best option
> software is ready up the point of reconstruction
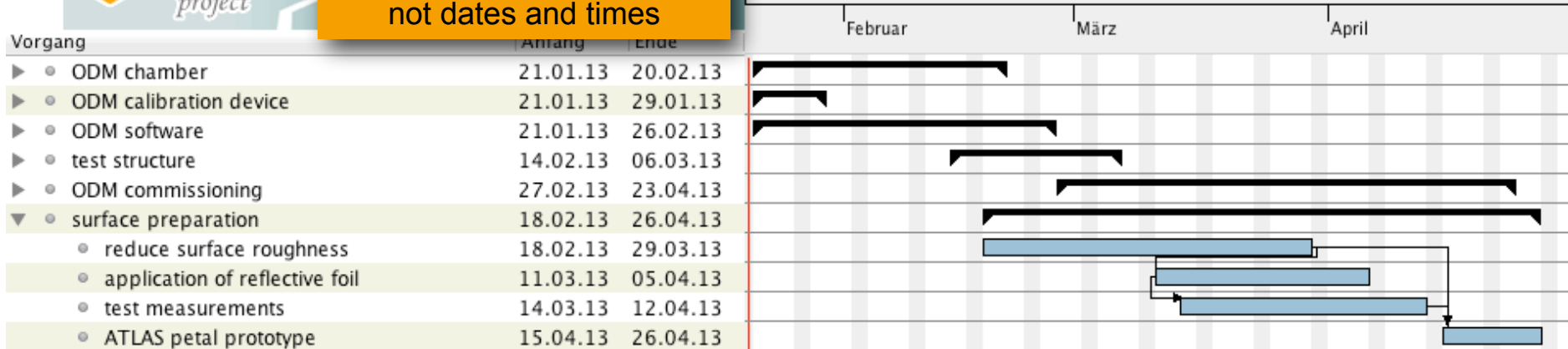 - reco code needs to be adapted to new software structure and setup

ODM Surface Preparation

Vorgang	Anfang	Ende
▶ ◦ ODM chamber	21.01.13	20.02.13
▶ ◦ ODM calibration device	21.01.13	29.01.13
▶ ◦ ODM software	21.01.13	26.02.13
▶ ◦ test structure	14.02.13	06.03.13
▶ ◦ ODM commissioning	27.02.13	23.04.13
▼ ◦ surface preparation	18.02.13	26.04.13
◦ reduce surface roughness	18.02.13	29.03.13
◦ application of reflective foil	11.03.13	05.04.13
◦ test measurements	14.03.13	12.04.13
◦ ATLAS petal prototype	15.04.13	26.04.13

emphasis on dependencies not dates and times

> surfaces of available test structures too rough
  - applying reflective foil does not work
  - foil typically reproduces micro-structure of surface and reflections are not reconstructable
> surfaces treatment method needs to be estblished
  - coat with ‚soft' filling material
  - cover with reflective foil
  - FEC offered to help...
> Critical for AIDA/Santander/INTA measurements with optical fibres