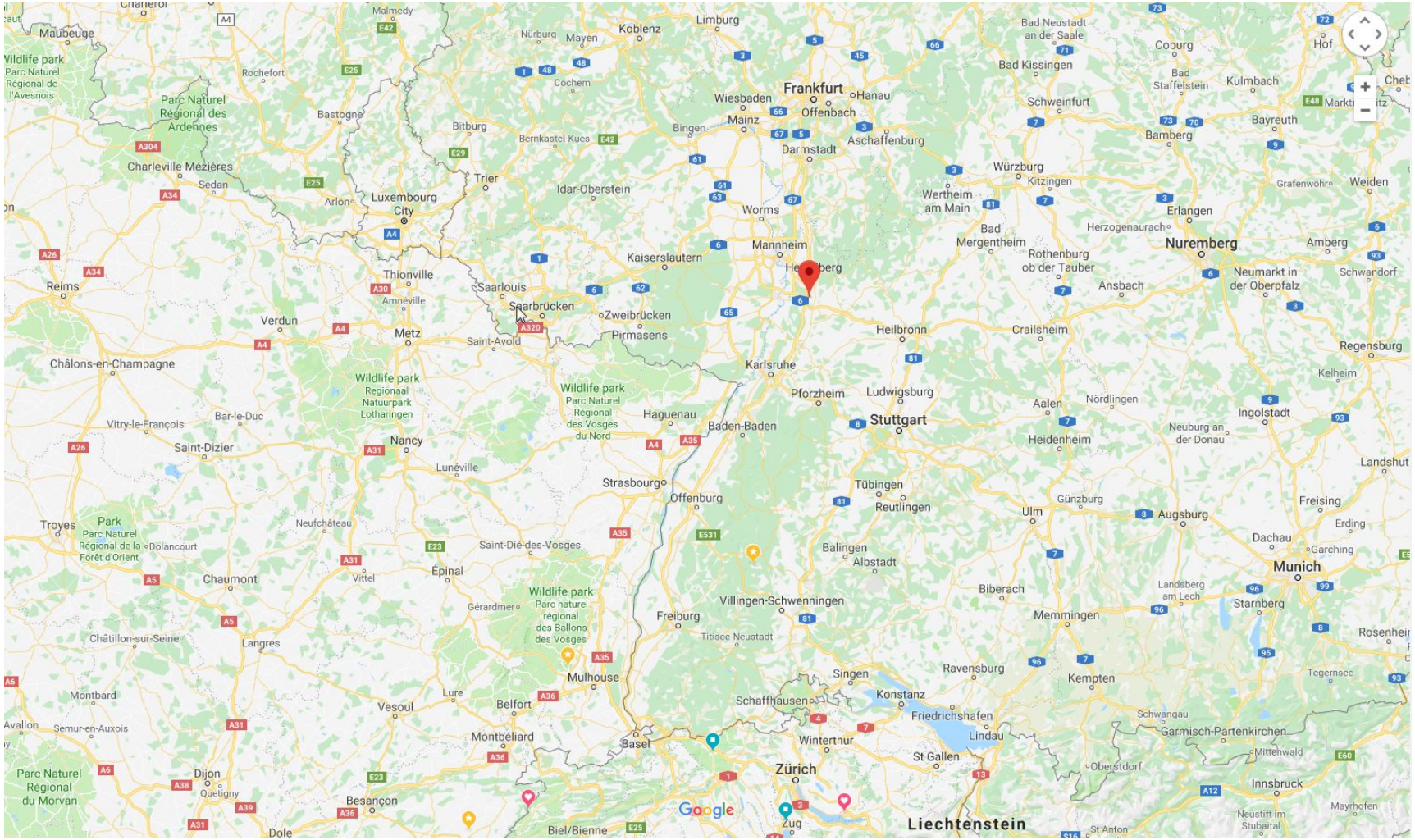
SAP Trip Report

B. Bellenot (CERN, EP-SFT)

SAP Trip Report

- SAP, Walldorf (DE), 19-20 February
  - ROOT: Iliana Betsou, Sergey Linev, and me
  - SAP: Peter Muessig(*), Andreas Kunz, and Margot Wollny (Director Product Management)
  - Two full days workshop with OpenUI5 main developers (Peter Muessig(*) and Andreas Kunz)
  - Focus on very specific list of items (open questions)
- Shape the future ROOT Web GUI

(*)Peter Muessig is one of the initiators who started the Phoenix project (a.k.a. OpenUI5/SAPUI5). Today he is working as Lead Architect for OpenUI5/SAPUI5.


Charleroi
Maubeuge
Malmedy
Nürburg
Mayen
Koblenz
Limburg
Bad Neustadt an der Saale
Coburg
Hof
Wildlife park Parc Naturel Régional de l'Avesnois
Rochefort
Cochem
Frankfurt
Hanau
Bad Kissingen
Bad Staffelstein
Kulmbach
Parc Naturel Régional des Ardennes
Bastogne
Bitburg
Wiesbaden
Offenbach
Schweinfurt
Bayreuth
Bingen
Mainz
Bernkastel-Kues
Aschaffenburg
Bamberg
Charleville-Mézières
Sedan
Darmstadt
Würzburg
Kitzingen
Trier
Idar-Oberstein
Wertheim am Main
Grafenwöhr
Weiden
Arlon
Luxembourg City
Worms
Erlangen
Herzogenaurach
Bad Mergentheim
Nuremberg
Amberg
Mannheim
Kaiserslautern
Rothenburg ob der Tauber
Reims
Thionville
Amnéville
Saarlouis
Ansbach
Neumarkt in der Oberpfalz
Schwandorf
Saarbrücken
Zweibrücken
Verdun
Metz
Pirmasens
Heilbronn
Crailsheim
Saint-Avold
Regensburg
Châlons-en-Champagne
Karlsruhe
Kelheim
Wildlife park Regionaal Natuurpark Lotharingen
Wildlife park Parc Naturel Régional des Vosges du Nord
Pforzheim
Ludwigsburg
Aalen
Nördlingen
Ingolstadt
Vitry-le-François
Bar-le-Duc
Haguenau
Baden-Baden
Stuttgart
Neuburg an der Donau
Saint-Dizier
Nancy
Heidenheim
Lunéville
Landshut
Strasbourg
Tübingen
Offenburg
Reutlingen
Günzburg
Freising
Troyes
Park Parc Naturel Régional de la Forêt d'Orient
Dolancourt
Neufchâteau
Ulm
Augsburg
Erding
Saint-Dié-des-Vosges
Dachau
Garching
Balingen
Albstadt
Munich
Chaumont
Vittel
Épinal
Biberach
Landsberg am Lech
Wildlife park Parc naturel régional des Ballons des Vosges
Gérardmer
Villingen-Schwenningen
Starnberg
Freiburg
Memmingen
Rosenheim
Châtillon-sur-Seine
Langres
Titisee-Neustadt
Mulhouse
Singen
Ravensburg
Kempten
Tegernsee
Montbard
Lure
Belfort
Schaffhausen
Konstanz
Vesoul
Friedrichshafen
Schwangau
Avallon
Semur-en-Auxois
Montbéliard
Basel
Winterthur
Lindau
Garmisch-Partenkirchen
Mittenwald
Parc Naturel Régional du Morvan
Dijon
Quetigny
Zürich
St Gallen
Oberstdorf
Innsbruck
Besançon
Google
Zug
Liechtenstein
Mayrhofen
Neustift im Stubaital
Dole
Biel/Bienne
St Anton

SAP Fast Facts

- 425,000 Customers in more than 180 countries
- 96,000+ Employees from 140+ countries
- 18,000+ SAP partner companies globally
- 24.74b€ Total Revenue (Non-IFRS) in FY2018
- 186 mil. Subscribers in their cloud user base
- 100+ Innovation and development centers

SAP
SCHULUNGSZENTRUM
Rudolf Albrecht
GmbH Kirchenbedarf...
Auto parts store
HELO Kfz-Technik
SAP Deutschland SE
& Co. KG (WDF21)
SAP SE (WDF03)
Walldorf SAP
Building No 1
DHL Packstation
Mosque
DITIB Walldorf Moschee
Electric vehicle
charging station
Ladestation SAP P1
Parking Garage
SAP SE (P1)
SAP Guesthouse Kalipeh
MOBISYS Mobile
Informationssysteme
Parking Lot
P7
Kletterspielplatz
L723
Dietmar-Hopp-Allee
Altrottstraße
Am Hochholzergraben

The Programme - First Day

09:00am - 9:30am Welcome & Introduction

09:30am - 10:00am Brainstorming about possible topics for the afternoon

10:00am - 10:30am Integration of UI5 into ROOT & Project Structure/Setup

10:30am - 10:45am Coffee Break

10:45am - 12:00am RootModel / RootListBinding + Data Provider (Together)

12:00am - 1:00pm Lunch Break (SAP canteen)

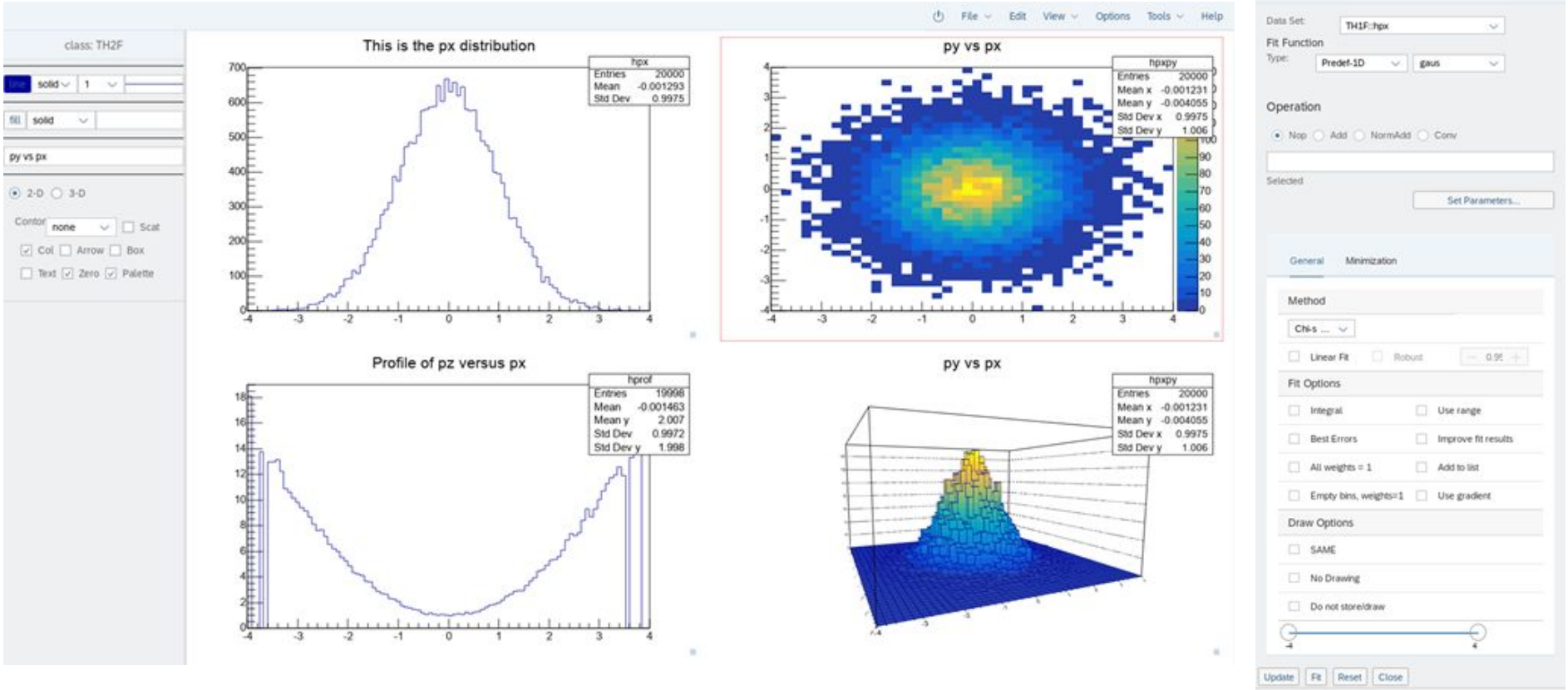
1:00pm - 3:00pm Group work (TBD)

3:30pm - 3:45pm Coffee Break

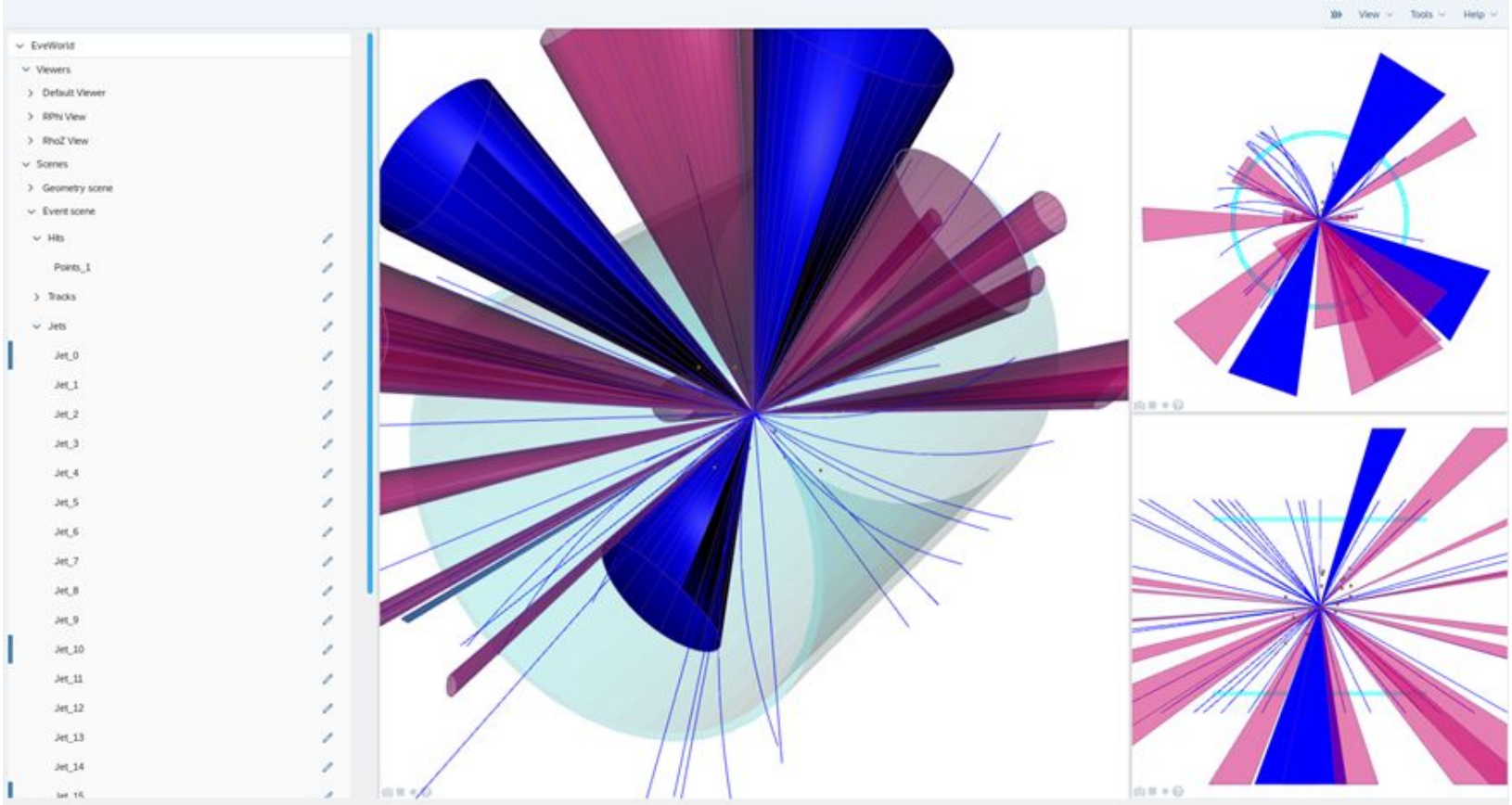
3:45pm - 5:00pm Group work (TBD)

5:00pm - 5:30pm Wrap up of Day 1 - Present topics

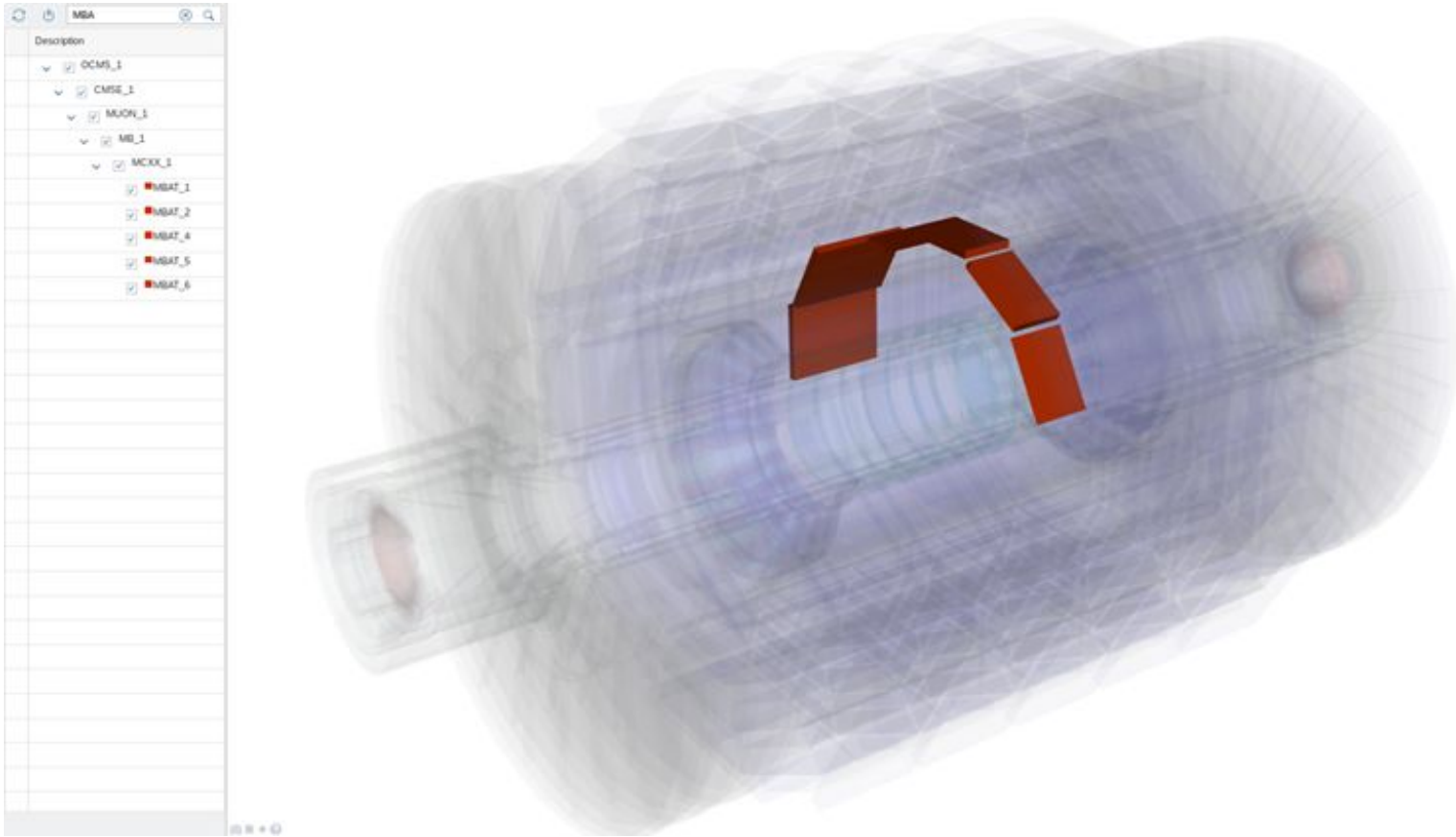
ROOT Web GUI


File
Edit
View
Options
Tools
Help
class: TH2F
py vs px
2-D
3-D
Contor
none
Scat
Col
Arrow
Box
Text
Zero
Palette
This is the px distribution
hpx
Entries 20000
Mean -0.001293
Std Dev 0.9975
py vs px
hpxpy
Entries 20000
Mean x -0.001231
Mean y -0.004055
Std Dev x 0.9975
Std Dev y 1.006
Profile of pz versus px
hprof
Entries 19998
Mean -0.001463
Mean y 2.007
Std Dev 0.9972
Std Dev y 1.998
py vs px
hpxpy
Entries 20000
Mean x -0.001231
Mean y -0.004055
Std Dev x 0.9975
Std Dev y 1.006
Simple Fit Panel
Data Set:
TH1F::hpx
Fit Function
Type:
Predef-1D
gaus
Operation
Nop
Add
NormAdd
Conv
Selected
Set Parameters...
General
Minimization
Method
Chi-s ...
Linear Fit
Robust
Fit Options
Integral
Use range
Best Errors
Improve fit results
All weights = 1
Add to list
Empty bins, weights=1
Use gradient
Draw Options
SAME
No Drawing
Do not store/draw
Update
Fit
Reset
Close

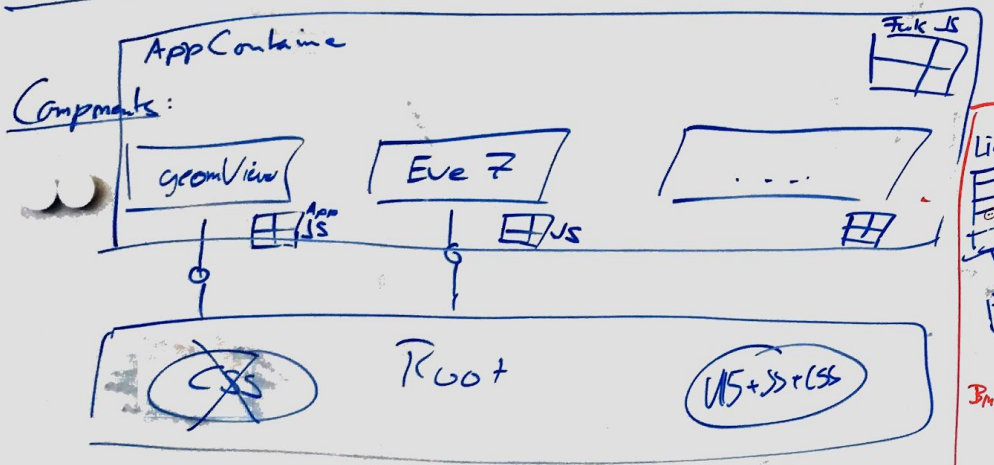
ROOT Web GUI

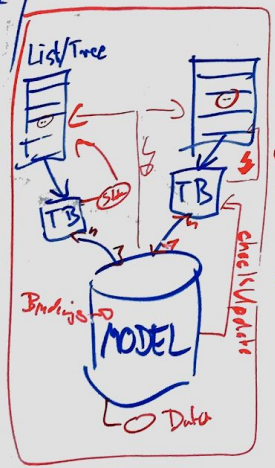

View
Tools
Help
EveWorld
Viewers
Default Viewer
RPhi View
RhoZ View
Scenes
Geometry scene
Event scene
Hits
Points_1
Tracks
Jets
Jet_0
Jet_1
Jet_2
Jet_3
Jet_4
Jet_5
Jet_6
Jet_7
Jet_8
Jet_9
Jet_10
Jet_11
Jet_12
Jet_13
Jet_14

ROOT Web GUI


MBA
Description
OCMS_1
CMSE_1
MUON_1
MB_1
MCXX_1
MBAT_1
MBAT_2
MBAT_4
MBAT_5
MBAT_6

Bootstrapping / Loading / Packaging :





Requirements / Infos

- Responsiveness : how to?
- Extensibility
- Metadata Driven UI
- Tree(Table) + Paging Model
- Highlighting of UI Elements
- Theming / Condensed
- Desktop vs. Mobile Strategy
- Self-contained packaging
- Async Behavior (Bootstrap)
- TreeNode + Binding (Structure)

Dinner in Heidelberg

The Programme - Second Day

9:00am - 9:30am Brainstorming about possible topics to investigate

9:30am - 10:30am Group work (TBD)

10:30am - 10:45am Coffee Break

10:45am - 12:00am Group work (TBD)

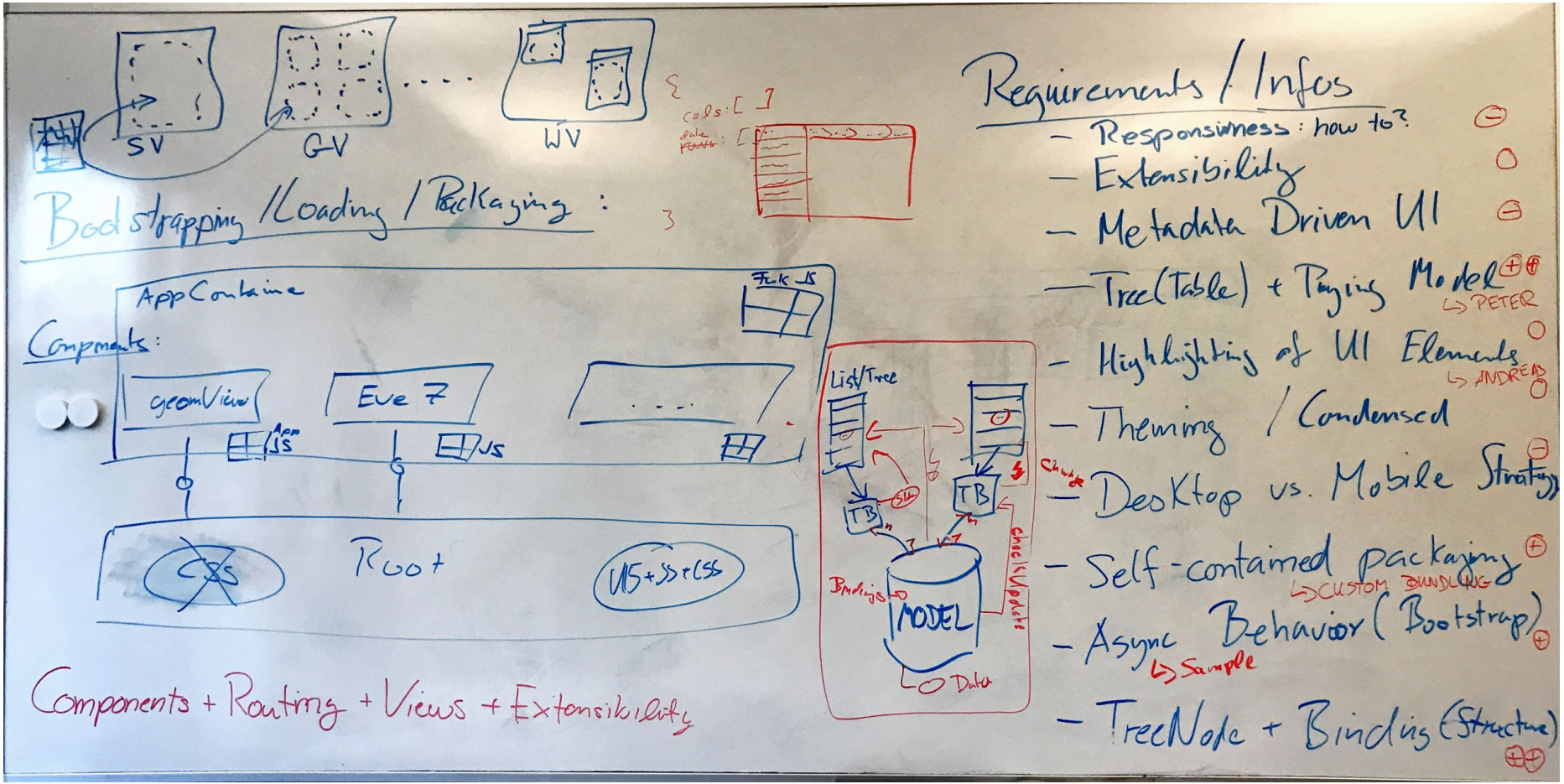
12:00am - 1:00pm Lunch Break (SAP canteen)

1:00pm - 3:00pm Group Work (TBD)

3:00pm - 3:15pm Coffee Break

3:15pm - 4:00pm Group Work (TBD)

4:00pm - 5:00pm Presentation to UI5 mgmt & Finalize workshop + discussion


SV
GV
WV
Bootstrapping / Loading / Packaging :
cols: [ ]
Components:
AppContaine
geomView
Eve 7
App JS
JS
Root
CSS
UI5+JS+CSS
List/Tree
TB
TB
MODEL
Data
Bindings
Requirements / Infos
- Responsiveness : how to?
- Extensibility
- Metadata Driven UI
- Tree(Table) + Paying Model
PETER
- Highlighting of UI Elements
ANDREAS
- Theming / Condensed
- Desktop vs. Mobile Strategy
- Self-contained packaging
CUSTOM BUNDLING
- Async Behavior (Bootstrap)
Sample
- TreeNode + Binding (Structure)
Components + Routing + Views + Extensibility

Conclusions

- The workshop was a huge success
  - Excellent atmosphere during the workshop
  - Very helpful OpenUI5 developers, and willing to continue the collaboration
  - Gained a lot of knowledge about how to use OpenUI5 in the most efficient way
  - Downside: We now have to modify/adapt a lot of existing code…
- Next Event: **UI5con** https://openui5.org/ui5con/index.html

Thanks again to OpenUI5 team for organizing this workshop!