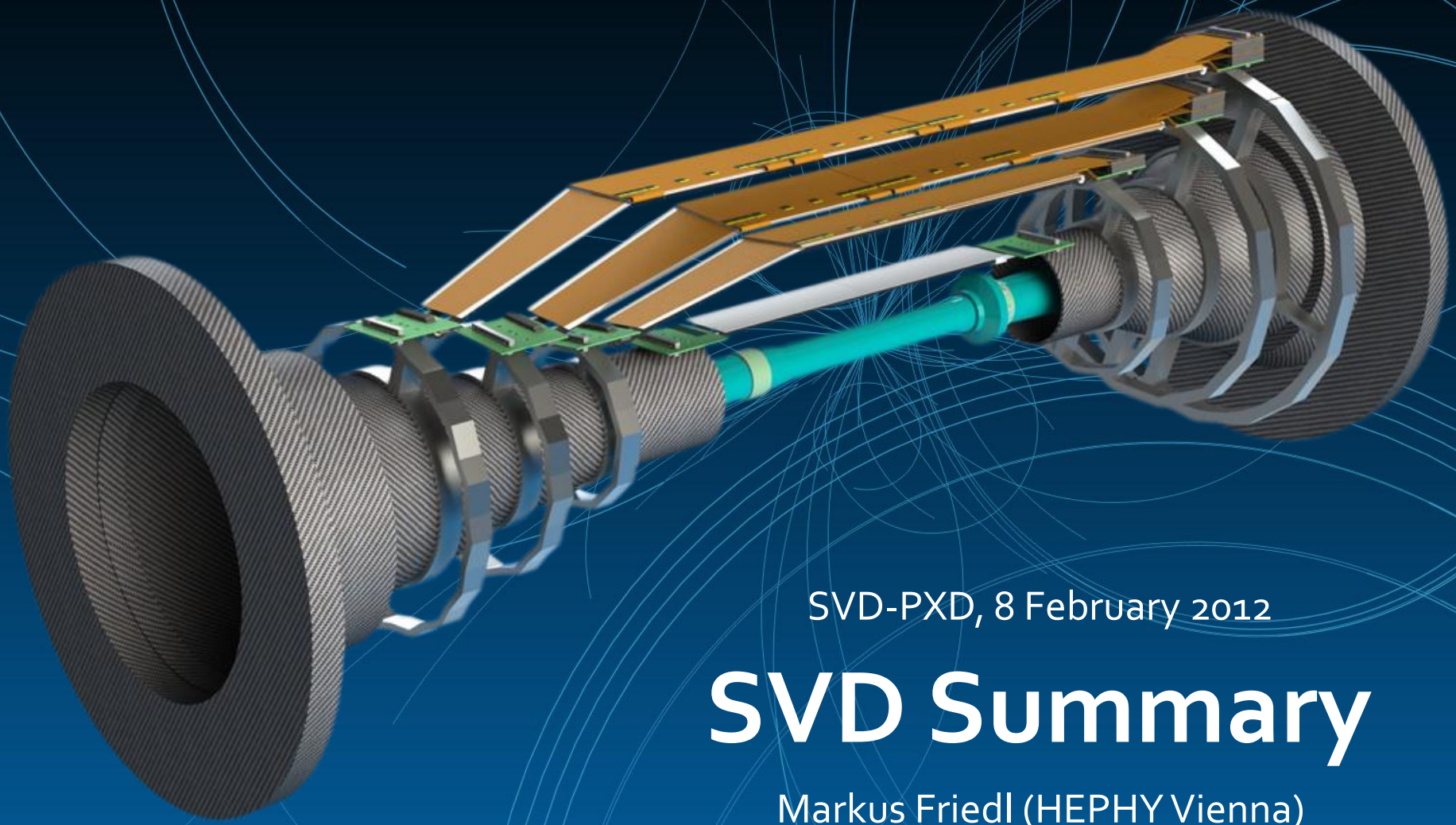
HEPHY
Institute of High Energy Physics

ÖAW
Austrian Academy of Sciences

Belle II

SVD



SVD-PXD, 8 February 2012

SVD Summary

Markus Friedl (HEPHY Vienna)

SVD Parallel Sessions

- Monday morning
  - General
  - Sensors
- Monday afternoon
  - Mechanics & geometry
  - Front-end & ladder assembly
- Tuesday morning
  - Back-end electronics
  - Software

- I can only briefly summarize, please look at Indico for details

General

- Yutaka Ushiroda: Status and Funding
  - SVD is not entirely funded, missing 1M€
  - Additional contributions are welcome ☺
  - New participant: Melbourne (now applying for funding)

- Markus Friedl: SVD Schedule
  - Detailled resource planning focussed on HEPHY activities
  - Toru already adapted "official" schedule accordingly
  - Suggestion for ladder assembly sites
    - L6: KEK/IMPU L5: Vienna L4: Melbourne L3: ?

Sensors

- Toru Tsuboyama: HPK Status
  - Large delivery expected in late 2012
- Thomas Bergauer: Micron Status
  - Sensors with improved p-stop design now in production
- Manfred Valentan: Beam test & irradiation results
- Christian Irmler: Zero suppression with FADC
- Paul Dolejschi: Characterisation of DSSD interstrip parameters
- Thomas Bergauer: Beam test & irradiation plans
  - Combined beam test + irradiation + beam test in 2012

Mechanics & Geometry

- Shuji Tanaka: Mechanics news from KEK (also plenary)
  - Suggests "Problem sheets" to describe issues
- Immanuel Gfall: Geometry and constraints (also plenary)
  - Several options
  - Ushiroda-san asks for price tags of each option
- Manfred Valentan: Simulation
  - Full simulation will not be available soon
  - Fast simulation (LicToy) shows no significant difference of options
- Christoph Schwanda: Physics considerations
  - Vertex accuracy vs. Ks-tagging

Front-end & Ladder Assembly

- Christian Irmler: Origami and PA design
  - Design flipped after change of windmill direction
  - New Origamis and single-layer pitch adapters in procudtion

- Yoshiyuki Onuki: Jigs and procedure
  - Detailed design for assembly jigs
  - "Somehow" procedure for mounting of slanted sensors elaborated

Back-end Electronics

- Markus Friedl: FADC system
  - Suggesting higher density FADCs (48 APV channels/board)
  - DC/DC converters better fit existing Kenwood power supplies
- Changwoo Joo: Zero suppression with APVDAQ
  - Firmware extension to APVDAQ (small-scale test system) for experiment at J-PARC
- Thomas Obermayer: Online software
  - C++ software for control & readout of existing FADC prototype
  - Can be adapted for APVDAQ (Ishikawa-san is interested)

Software

- Christoph Schwanda: Overview
  - Simulation, online & offline are covered
  - Gave answers to questionnaire by software coordinators
- Peter Kvasnicka: SVD Digitizers (also plenary)
- Akimasa Ishikawa: SVD Work @ Tohoku
  - Hardware & software plans for Tohoku
  - QA for ladder assembly, FTB-COPPER link, background simulation, offline data modelling
- Moritz Nadler: Track fitting
  - Working on tracking details
  - Material estimation based on data

Last Slide

- Thank you all for making this meeting a success!
- Enjoy the rest of your stay in Vienna and have a safe trip home – or see you tomorrow at the Background Meeting
- We'd like to ask for feedback to improve future meetings: http://survey.hephy.at/index.php?sid=87143&lang=en

See you at the March B2GM in Japan!