

Meeting on data base for low-energy hadronic cross sections in e+e- collisions

# Introduction

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## Agenda


- Introduction PrecisionSM/STRONG2020 - Andrzej Kupsc (5 min)
- DataBase project goal - Graziano Venanzoni (10 min)
- DataBase project status/options - Alberto Lusiani (10 min)
- HEPData - Graeme Watt (20 min)
- Example from KLOE - Stefan Mueller (10 min)
- Contact with experiments - Simon Eidelman (5 min)
- Discussion/conclusions/next steps



UPPSALA  
UNIVERSITET

## Context of the meeting:

- STRONG2020
- PrecisionSM project:
  - Postponed workshop
  - Deliverable: data base (Graziano talk)



# Hadron Physics for Precision Tests of the Standard Model


1-3 June 2020  
Jagiellonian Center of Innovation Sp. z o.o. (LTD)  
Europe/Warsaw timezone


- Overview
- Scientific Programme
- Registration
- Participant List
- Meeting fee and Payment
- Location and transportation
- Lodging, lunch etc
- Contact info
- Sponsors
- Meeting photos
- Transportation


Support  
✉ [hans.calen@physics.uu.se](mailto:hans.calen@physics.uu.se)



(Postponed to spring 2021 due to COVID-19!): the new date will be announced later. We plan to have discussions related to the Precision project via video conferences.


### Precision Workshop 1-3 June Krakow

 **Starts** 1 Jun 2020, 09:00  
**Ends** 3 Jun 2020, 17:00  
Europe/Warsaw

 Jagiellonian Center of Innovation Sp. z o.o. (LTD)  
Life Science Park  
Michała Bobrzyńskiego 14 St.  
30 – 348 Cracow

 **Andrzej Kupsc**

 There are no materials yet. 

 This workshop does not have any registration fee

**Organizing Committee:**

- Jacek Biernat
- Varvara Batozskaya
- Hans Calen
- Viktor Thorén
- Andrzej Kupsc



*The strong interaction at the frontier of knowledge:  
fundamental research and applications*



LOW ENERGY



HIGH ENERGY



INSTRUMENTATION



INFRASTRUCTURES

## LOW ENERGY FRONTIER

Precise determination of the muon anomalous magnetic moment  $(g-2)_\mu$ ; the CKM matrix element  $V_{ud}$  from beta decay, and the weak mixing angle from parity-violating electron scattering. Associated novel constraints (or discovery) of physics beyond the SM.

**JRA3-PrecisionSM**

<http://www.strong-2020.eu/>

**NA4-PREN**

Address the "proton-radius puzzle" via combined data-theory



## JRA3-PrecisionSM: Precision Tests of the Standard Model

Joint Research

Precision experiments at low energy, often called the Intensity Frontier of the Standard Model, entail measuring parameters of SM with high precision thereby constraining the contributions of yet unknown non-standard interactions and particles. While collider searches are best suited to look for heavy new particles, low-energy tests are sensitive to the full range of new physics.

[Read More](#)



Experimental context of this proposal:

- precise determination of the muon anomalous magnetic moment
- extraction of the CKM matrix element  $V_{ud}$  from beta decay, and of the weak mixing angle from parity-violating electron scattering (PVES).

Lead beneficiary: JGU MAINZ - Germany

Spokespersons: Mikhail Gorshtey, Andrzej Kupsc

Partners: INFN - Graziano Venanzoni, UU - Andrzej Kupsc