



News

TDCPV meeting
24/8/2020

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Status after ICHEP



- Flavour tagging performances [arXiv:2008.02707](#)
- Prompt measurement of TDCPV and mixing for J/psi Ks (Approved plot) just in time [BELLE2-NOTE-PL-2020-011](#)
 - We will discuss in details plan for the near and medium future with core analysis team (Thibaud and Chiara)
 - Both for plan and for tasks sharing
 - Not possible yet due to (well deserved) holiday
 - Will do next WG meeting - and on mailing list before that
- Phi Ks analysis (RB and FL) approved [arXiv:2005.07507](#),
- In the pipeline:
 - J/psi KL [BELLE2-NOTE-TE-2018-007](#)
 - Giuseppe *et al.* will present status next AG meeting
 - Eta' Ks [BELLE2-NOTE-PH-2020-053](#)
 - (SL) Some progress done, will present next AG as well
 - J/psi Ks - MC reweight
 - ...

Next conferences



- Beauty (zoom-only) 21-24 september
- CKM - Melbourne (?) 30/Nov - 4/Dec
- Please be aware of the mandatory steps for approval
 - AG review
 - Need to have a B2note updated describing the analysis
 - RC review
 - At least 14 days
 - Very optimistic scenario: all is ready and well documented.
 - CWR
 - Not needed for approved plot

Guidelines for approval of physics results in Belle II

Stage	Days before start of conference		
	Aggressive	Recommended	Paper
Target AG sign-off	45	60	90
Start of RC Review	25	40	60
Start of CW Review	10	20	30

Focus on analysis SKIM - udst



- So far, we have not used much the udst - analysis skim in this AG
 - The plan is that in the future only udst will be available for analysis, with some exception,
 - We need to validate the skim selection for each analysis
 - Also need to understand if the current skims covers all the analysis we want to make or if we need to introduce new ones
 - For data processing point of view, it would be also important to optimize as much as possible the skims, to reduce retention rate and the number of different skims
 - This will result in faster udst availability, so it is in our interest too.

Skim issue: example



- Do not take for granted that the skims work out of the box or that they have no impact on your analysis
- Example: $B_0 \rightarrow \eta' K_s; \eta' \rightarrow \eta (-\rightarrow \gamma\gamma) \pi^+\pi^-; K_s \rightarrow \pi^+\pi^-$
 - Efficiency starting from hlt_hadron:
 - Reconstruction efficiency: 39 %
 - + selections: 31 %
 - Starting from analysis skim (udst)
 - Reco: 24.5 %
 - + selection: 19.5 %
 - Relative efficiency: **~60 %**
 - **Still investigating**
- Need to perform this kind of test for every analysis, and investigate possible issue
 - This is AG responsibility

Data Production status



- **bucket13** (2020a/b data - runs 4272-4481, ~5.0/fb): details on [Processing 2020a-b](#)
 - HLT skims on KEKCC, all events on the grid
 - Also mdst for hlt_hadron available on the grid
 - And udst - systematics skim
- **bucket14** (2020a/b data - runs 4686-5247, ~9.7/fb): details on [Processing 2020a-b](#)
 - HLT skims on KEKCC
 - hlt_hadron + all events on the grid (in progress)
- **bucket15** (2020a/b data - runs 5248-6427, ~19.0/fb): details on [Processing 2020a-b](#)
 - Cdst production for post-tracking calibration in progress
- Slow down due to kekcc/distributed computing servers replacement

Reminder KEKCC replacement



Dear KEKCC users,

Here is the schedule of system replacement work of KEKCC:

- **2020/8/31 12:00** **Current KEKCC will be terminated**
- **2020/9/01 13:00** **New KEKCC will start**

<https://wiki.kek.jp/x/moHpBw>

S. Nishida

TDCPV meeting schedule



- Will resume normal bi-weekly schedule
 - Europe friendly: Monday 18:00 JST - 05:00 EST - 11:00 CEST
 - US friendly: Wednesday 7:00 JST - 17:00 EST (Tues) - 23:00 CET (Tues)
- Next meetings:
 - 24/8 EU-friendly (today)
 - 9/9 US-friendly
 - 21/9
 - 7/10
 - ...

Today meeting



TDCPV Group Meeting (EU friendly)

 Monday 24 Aug 2020, 18:00 → 20:00 Asia/Tokyo

 Stefano Lacaprara (Belle (SuperKEKB Experiment)), Yosuke Yusa (Niigata University)

Description <https://speakapp.link/to/FUJkZQ>

18:00 → 18:10 **News**

Speakers: Dr Stefano Lacaprara (Belle (SuperKEKB Experiment)), Yosuke Yusa (Niigata University)

18:10 → 18:30 **Dilepton skim**

Speaker: Alessandro Gaz (Belle (SuperKEKB Experiment))

18:30 → 18:50 **TDCPV skim**

Speaker: Chiara La Licata (Belle (SuperKEKB Experiment))