Analysis QA Trains
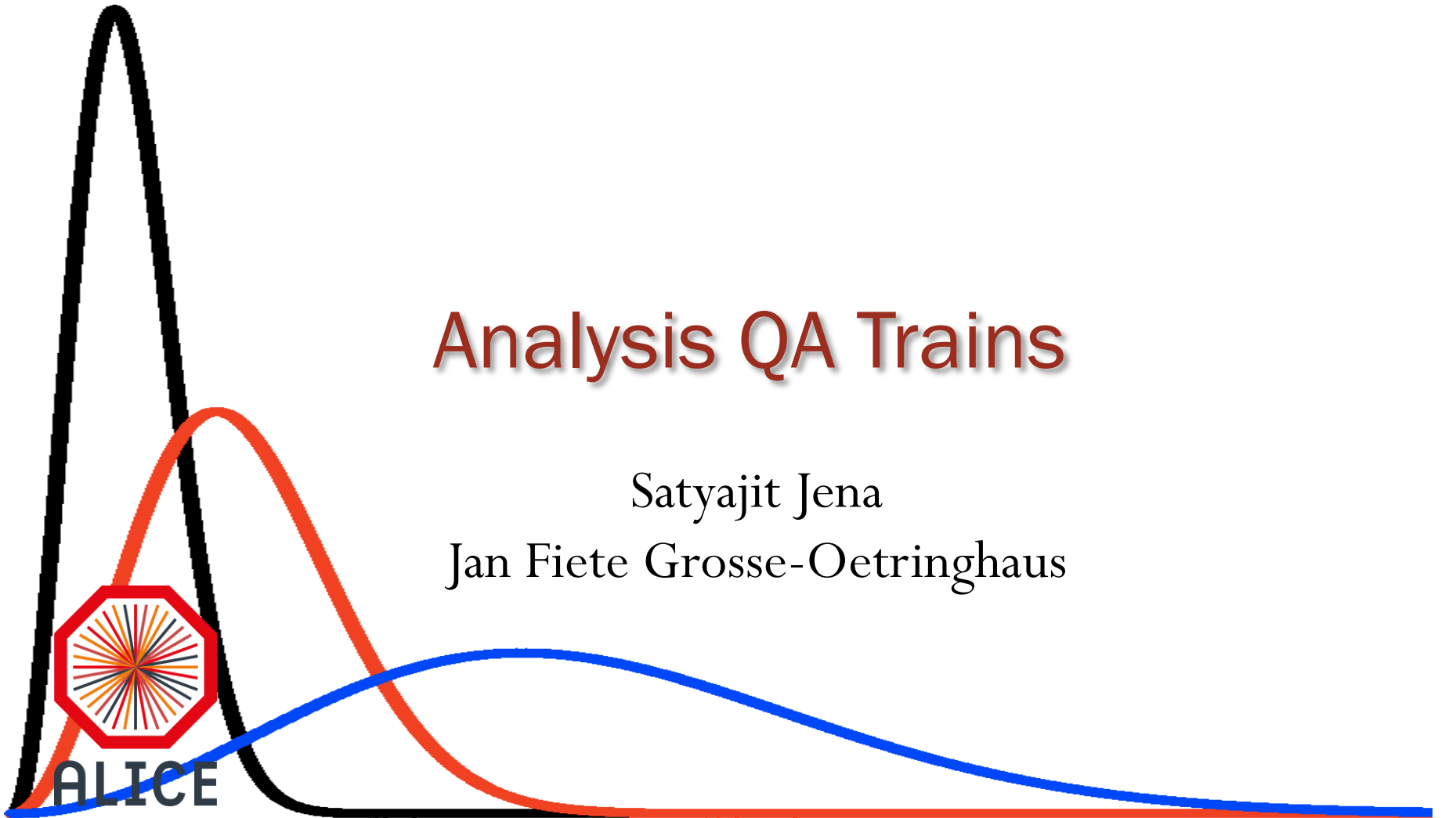
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Introduction

- To run the analysis driven QA tasks that are supposed to validate the newly created productions (e.g. re-filtered AODs)

- *Trains:*

    - *AOD: https://alimonitor.cern.ch/trains/train.jsp?train_id=70*

    - *ESD: https://alimonitor.cern.ch/trains/train.jsp?train_id=69*

    - *pp, pA, PbPb are as Groups*

- *Mailing list: alice-analysis-qa@cern.ch*

- *Twiki:*

    - *https://twiki.cern.ch/twiki/bin/viewauth/ALICE/AnalysisQA*

AnalysisQA_PWGCF

PWG	STATUS	AOD	ESD
PWGCF	Foreseen(3)	v2 as a function of pT AddTaskFlow*.C AddTaskPidVZEROSP.C AddTaskFlowStrange.C Projections of 3D 2 pion correlation functions Corrected associated particles per trigger yields unidentified and identified particles	
	Added(1)	PhiCorrelations_Hadrons_QA	
Response		Correlation: Wagon is set First Look: no yet Easy-to-read Macro: no yet No responses from others to configure parameters	

AnalysisQA_PWGLF

PWG		AOD	ESD
PWGLF	Foreseen	AliQAProdMultistrange AliAnalysisTaskQAV0 AliAnalysisTaskQAHighPtDeDx	- Same -
	Added	(1) AliAnalysisTaskQAMultistrange_PbPb_AOD	(2)AliAnalysisTaskQAMultistrange_PbPb (3)AliAnalysisTaskQAV0
Response		First Look: AOD for (1) are file certain issue with (2) ESD;Yet no interpretation is received Easy-to-read Macro: question where to keep the macro (QATasks/macros) ?	

AnalysisQA_PWGHF

PWG		AOD	ESD
PWGHF	Foreseen	QA task for D mesons AliAnalysisTaskSEHFQA A high-level QA task can be developed in case of PID QA	QA task for D mesons AliAnalysisTaskCheckHFMCProd For HFM: the muon QA at ESD level is probably enough.
	Added	1. HFETPCTOF PID task	
Response		First Look: summary for (1)– (discussed later in the talk) Easy-to-read Macro: Received Task to Do: •TPC PID Alone QA •TPC TRD PID QA •TPC EMCAL PID QA	

AnalysisQA_PWGDQ

PWG		AOD	ESD
PWGDQ	Foreseen	QA task for J/psi->e+e- AddTask_jpsi_Default	
	Added	AddTask_jpsi_Default	
Response		Updates are committed Need to fix the parameter in Wagons	

AnalysisQA_PWGJE

PWG		AOD	ESD
PWGJE	Foreseen	High-pt track QA: AliPWG4HighPtTrackQA Jet QA: AliAnalysisTaskEmcalJetTriggerQA: Need to converge on Settings, AddTask macro, probably 1 task for charged jets and one for full jets	
	Added	Needs many depended wagons to be added	
Response		Need to decide for separate QA tasks for PP and PbPb	

AnalysisQA_PWGGA

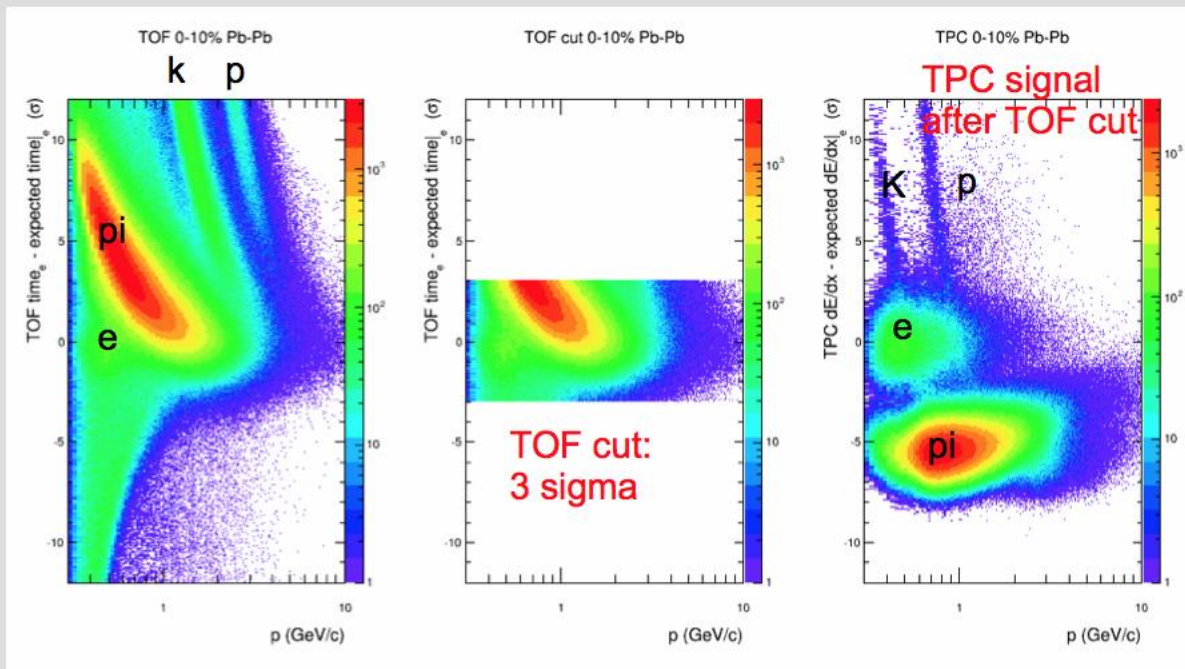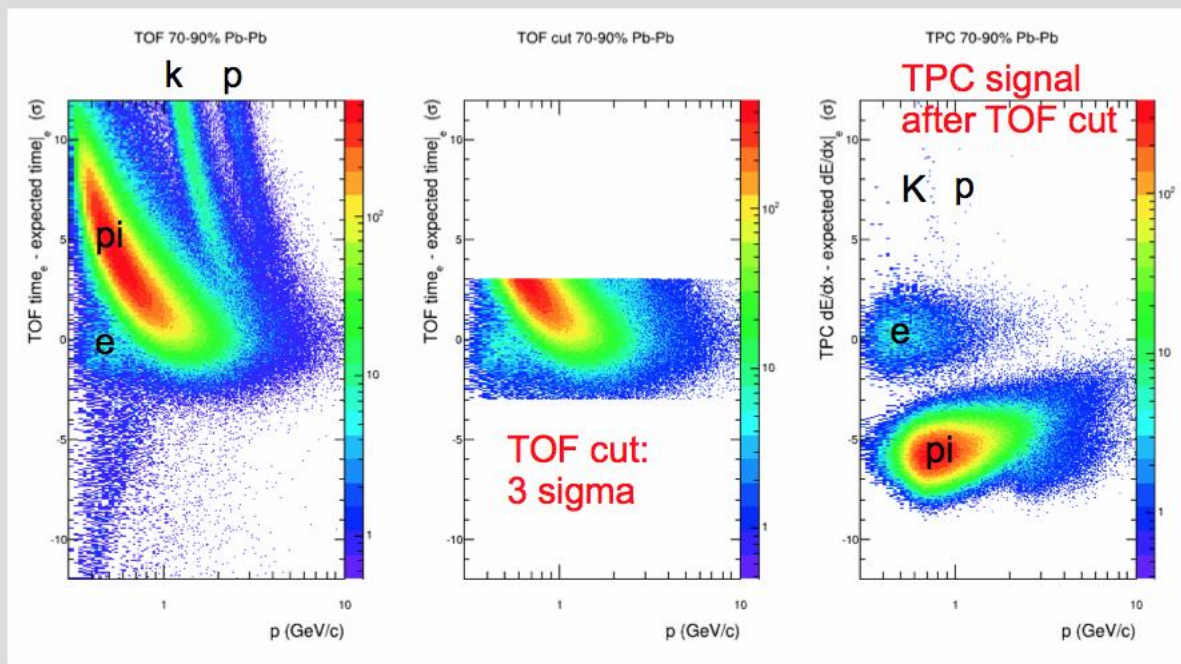| PWG		AOD	ESD
PWGGA	Foreseen	π^0 spectrum in PHOS TaskPHOSPi0pPb	
	Added	GammaConvV1_PbPb2	
Response		pi0 invariant mass analysis and the photon correlation analysis (optional) and standard QA analysis (optional)	

AnalysisQA_PWGUD

PWG		AOD	ESD
PWGUD	Foreseen	UPC J/psi analysis in the forward region	
	Added		
Response	Recently joined in Analysis Trains. Will provide the QA tasks very soon		

First Run:

- AOD:
  - LHC10h_AOD142
  - Run number: 136851, 136854, 136879, 139107, 139173, 139437, 139438
  - Train ID#5
  - Wagons: 5 (EventPlane, PIDResponse) + 3 QA Wagons
  - Memory: Max ~695MB/evt
- ESDs:
  - LHC10h_P2
  - Run number: Good_Runs_No_V_Drift_Problems
  - Train ID#2
  - Wagons: 5 (PhysSec, Centrality, PIDresponse) + two QA wagons
  - Memory: Max ~600MB/evt

Analysis QA: Summary Table

PWG	tasks on twiki	responses by responsibles	ready to run		ran successfully	macro to extract output	info what to compare
			AOD	ESD			
CF	3	2	1		1		
LF	3	2	1	2	1		
HF	4	1	1	1	1	1	
DQ	1	1	1				
JE	2	2	0				
GA	1	1	1				
UD	1	1	0				

Summary and outlook

- Physics Selection QA:
    - Do we need to keep some histograms?
- Reference Plots
- MC trains will be created once these ones are going
- Integrations of easy-to-read macros
- Twiki Documentation is ongoing
- What is the acceptable place holder for macros:
    - AliRoot?
    - Twiki?