INTT performance estimation towards national/international meetings Genki Nukazuka (RIKEN)

Coming meetings

- RIKEN Summer School
 - Sep 2 3
 - International
 - Cheng-Wei: ???
- JPS annual meeting
 - Sep 16 19
 - National
 - Itaru (talk): sPHENIX Cold-QCD
 - Takashi (talk):
 - Genki (talk): INTT talk but joints Itaru's talk to emphasize the importance of INTT in spin physics
 - Mai (talk): INTT event mix-up
 - Cheng-Wei (talk): INTT vertexing for Au-Au

Hard Probe

- Sep 22 28
- International
 - Cheng-Wei (poster): INTT general
 - Hinako (poster): INTT tracking for p-p
 - Mahiro (poster): INTT vertexing for p-p
 - Genki (talk): $dE_T/d\eta$ and $dN/d\eta$ (not INTT talk)

- APS DNP meeting
 - Oct 6 10
 - Joseph?
- KPS meeting?
 - Oct 22 25
 - ► Jaein?
- TPS meeting?
 - Jan 14 16 2025
 - Cheng-Wei?
 - ► Wei-Che?



Topics

Topics for a specific talk

- INTT event mix-up
 - Mai
 - mandatory for JPS
- Vertexing
 - Mahiro and Cheng-Wei
 - any new plots needed?
- Alignment
 - Mahiro, NWU?, Akitomo?
 - needed for HP?
- Tracking
 - Genki, Hinako
 - needed for HP

General topics

- INTT timing performance
 - Genki
 - good to have for HP and JPS
- Correlations
 - Genki, Jaein, Ryota, and?
 - good to have for all meetings
- MIP
 - Genki
 - good to have for all meetings
- Hot channel, BCO diff peak (calibration?)
 - Jaein, Joseph
 - good to have for all meetings?

Analysis note

Title: Performance plots of INTT for p-p collisions in Run 24

- 1. Introduction
- 2. Event mix-up
 - 2.1. Data
 - 2.2. Analysis
 - 2.3. Plot
- 3. Correlation study of detector parameters
 - 3.1. Data
 - 3.2. Analysis
 - 3.3. Plots
- 4. MIP peak search
 - 4.1. Data
 - 4.2. Analysis
 - 4.3. Plots
- 5. Timing tuning and performance evaluation 5.1. Data
 - 5.2. Analysis
 - 5.3. Plots

It's fine to describe some topics in a single analysis note d to save time. What about organizing as follows:

	tag: sPH-TRIG-2023-001 version: 0.1	5 1 Introduction
BEHENIX Report	DOI: unspecified date: August 21, 2024	7 INTT Run 24
		 This analysis note is organized as follows: a study of event mix-up is discussed in Sec. 2, correlation study of detector parameters is described in Sec. 3, MIP (minimum ionizing particle) peak search is discussed in Sec. 4.
Performance plots of INTT for p-p collisions in Run 24		. 2 Event mix-up
		 some introduction
		o 2.1 Data
		н – Үеат эхэд
		• Collision System: p+p • Collision energy: $\sqrt{s} = 200 \text{ GeV}$
		a • Run number
a Mai Kanc (NWU)		n 2.2 Analysis
		 Write if needed
		D 2.3 Plots
		SPHENIX
		Figure in It's a caption. Use PDF or prog [1].
* Abstract		
s nice abstract		» 3 Correlation
		» some introduction
		a 3.1 Data
		а 🔹 Үеат хахд
		 Collision System: p+p
		2
1		

<u>Overleaf</u>

Nothing written yet...

