RIKEN Accelerator Progress Report

An annual report at RIKEN Nishina Center in a single page of A4 including the title and the author list. Every individual in the INTT collaboration who belongs to RIKEN/RBRC or received a financial support from RIKEN in this fiscal year are asked to write a report.

Submission deadline: Jan/31/2024 17:00 (JST)

List of people who are asked to write

Yasuyuki :?Rachid :?

• Itaru : sPHENIX RUN23

Takashi : INTT software summary

Maya : LV

Genki : INTT commissioning summary

Cheng-Wei: (cosmic ray tracking?)

Joseph : (HV? Survey geometry?)

Jaein : (Hot/dead channel analysis?)

Wei-Che : (stability monitor? cosmic data analysis?)

Yuka : DAC scan

Misaki : dN/dη (read data)

Tomoya : dN/dη (comparison to MC)

Mai W. : Jet reconstruction

Ryota : Noise

Mai K. : Data readout (event mix-up)

Hinako : Tracking with INTT hits

Manami : Event display

Kazuma : ROC test

• Raul : FELIX

Other topics

- Mass ladder QA
- µ-coaxial conversion cable R&D and mass production
- Test beam experiment@ELPH

Test beam experiment at ELPH in Tohoku University

G. Nukazuka, ¹ Y. Akiba, ¹ D. Cacace, ² H. En'yo, ¹ K. Cheng, ³ T. Hachiya, ¹1.⁴ S. Hasegawa, ¹1.⁵ M. Hata, ⁴ H. Imai, ¹1.⁶ T. Kondo, ⁷ C. Kno, ³ H.-S. Li, ⁸ R. -S. Lu, ⁶ E. Mannel, ² C. Miraval, ² M. Morita, ¹1.⁴ I. Nakagawa, ¹ Y. Nakamura, ¹1.⁶ G. Nakano, ¹1.⁶ V. Namimoto, ¹1.⁶ R. Nouicer, ² R. Pisan M. Shibata, ¹1.⁴ M. Shimomura, ⁴ C. Shih, ³ M. Stojanovic, ⁵ Y. Sug'yama, ⁴ R. Takahama, ¹1.⁴ W.-C. Tan

n will start data acquighon plasma and cold the Relativistic Heavy awen National Laboraracter (INTT)² one of HENIX detector combining and jet flavor tagbackground. Fifty-six fred to surround the industrial station and the collection efficient in the experiment. ²³

It is a surround to the industrial station, a detection efficient in the experiment. ²³

Fig. 2. Sum of the collected hits on the collected hits o

and y along the properties of the signals synchronized when the control of the signals synchronized with the beam colors. ECO in the system drove the INTT while the signals synchronized with the beam collision drove at RHIC. The timing the third properties of the BCO and the beam may explain the BCO and the beam may explain the signals substituted the properties of the synchronized the signals which is the signal of the signal signals are signals. The simulficient detection of efficiency in the experiment may be due to the signals signals are signals.

- Tests and performance evaluation of the n production ladders
 Tests of the long readout extension cable of 1.2
 Analog-digital converter distribution meas ments with various beam injection angles wit spect to the INTT ladders.
- Performance evaluation of the ladders in a multitrack condition similar to that in RHIC by installing a lead plate the upstream of the setup We measured hits on INTT ladders with a positron beam of 1 GeV at the Research Center for Electron
- beam of IGeV at the Research Center for Electi

 RIKEN Nishina Center

 Physics Department, Brookhaven National Laboratory

 Department of Physics, National Central University

 Department of Mathematical and Physical Sciences, N
 Women's University
 - i's University

 Atomic Energy Agency
 ment of Physics, Riklyo University
 ment of Physics, Riklyo University
 21. I. Nakagawa et al., in the
 ment of Physics and Astronomy, Purdue University
 (2020).

 32. Whether of all the state of the state o

and Astronomy, Purdue University
Astional Taiwan University
Science, Tohoku University

5) M. Morita et al., in this report.

Example

Call for Contribution for RIKEN Accelerator Progress Report Vol.57

We are calling for the manuscript for RIKEN Accelerator Progress Report Vol.57, the official annual report of the Nishina Center for Accelerator-Based Science.

You are asked to submit the research results and interim report of any experiments conducted at the Nishina Center including the RIBF, the RIKEN BNL Research Center, the RIKEN Facility Office at RAL (and any other partner institutions) from January to December, 2023. Papers published within the past year should be contributed in a condensed form in a format as "Condensed from the article in XXXX".

For more details, please refer to "Author's Guide".

Deadline for submission: Wednesday, January 31, 2024 17:00(JST) (Strict deadline)

A manuscript not submitted by the deadline will not be accepted.

RIKEN Nishina Center Accelerator Progress Report Editorial Committee

Chair: Hiromitsu Haba