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OBJECTIVE: To use my scientific skills to study the high energy particle physics and the relativistic heavy ion physics.

EDUCATION:

Ph. D. University of Tsukuba (Japan), Physics, June 2000.

- Thesis Advisor: Yasuo Miake.
- Thesis Topic: Study of Single Particle Spectra and Two Particle Correlations in Au+Au Collisions at 4 – 11 A GeV.

Master University of Tsukuba. Physics, March 1997.

B.S. Tokyo University of Science (Japan), Physics, March 1994.

RESEARCH EXPERIENCE:

2004 Feb. 20th – present

Research Associate, Department of Physics and Astronomy, Vanderbilt University, TN, USA.

- PHENIX Time-of-Flight upgrade project.
- Hadron Physics Working Group co-convenors of PHENIX Collaboration (2004 Jul. – present).

2003 Sep. 16th – 2004 Feb. 19th:

Contract Researcher, The Institute of Physical and Chemical Research (RIKEN), Wako, JAPAN.

2003 Sep. 1st – Sep. 15th:

Contract Researcher, High Energy Accelerator Research Organization (KEK), Tsukuba, JAPAN.

2000 Aug. – 2003 Aug:

Research Associate. Physics Department, Brookhaven National Laboratory, NY, USA.

- Analyzed identified charged hadron spectra in Au+Au collisions at 130 GeV and 200 GeV measured by PHENIX experiment at RHIC.
- Finalized the identified charged particle spectra analysis, and published the results in Physical Review Letter 91, 172301 (2003) [nucl-ex/0305036], and Physical Review C 69, 034909 (2004) [nucl-ex/0307022].
- A Plenary speaker at the 16th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (Quark Matter 2002) on behalf of the PHENIX collaboration.
- PHENIX data production manager (2001 Mar. – 2002 Nov.) Reconstructed all data of Au+Au and proton-proton taken during 2001-2002 run period.
- PHENIX Experimental Operational Group member (Representative of Time-of-Flight detector subsystem).
- Software development of PHENIX Time-of-Flight reconstruction software.
- A member of PHENIX Internal Review Committee for papers on neutral pion productions in Au+Au (PRL, 91, 072301 (2003), nucl-ex/0304022) and proton-proton at 200 GeV (PRL, 91, 241803 (2003), hep-ex/0304038).
- The chair of PHENIX Internal Review Committee for the paper on the charged particles and neutral pion spectra in d+Au at 200 GeV (nucl-ex/0306021) and published in PRL 91, 072303 (2003).

1995-2000: **Graduate Student.** University of Tsukuba, Japan.

- Constructed the Time-of-Flight detector for CERN-WA98 and RHIC-PHENIX experiments.
- Designed and constructed the gas Cherenkov beam counter for CERN-WA98 experiment.
- Analyzed identified single particle spectra and HBT two-particle correlations in Au+Au collisions at AGS (E866 experiment).

COMPUTER SKILLS:

- Extensive C++ programming experience.
- Extensive use of shell scripting to automate data processing.
- Working knowledge of CVS version control system.
- Working knowledge of Unix, Linux.
- Working knowledge of ROOT, HTML and LATEX.

PROFESSIONAL MEMBERSHIPS:

- 1990 – present The Physical Society of Japan.

HONERS:

1997-2000 University of Tsukuba (Japan):

- Research Fellowship, Japan Society for the Promotion of Science.

RESEARCH ACCOMPLISHMENTS:

Ph.D. Thesis

Tatsuya Chujo, “Study of Single Particle Spectra and Two Particle Correlations in Au+Au Collisions at 4 – 11 A GeV”, University of Tsukuba (Japan), 2000.

Selected Publications

- The PHENIX Collaboration, “Identified Charged Particle Spectra and Yields in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV”, Physical Review C 69, 034909 (2004), [nucl-ex/0307022].
- The PHENIX Collaboration, “Scaling properties of proton and anti-proton production in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions at RHIC”, PRL 91, 172301 (2003), [nucl-ex/0305036].
- Chujo, T. for the PHENIX Collaboration, “Hadron Production at Intermediate p_T at RHIC”, to be published in J. Phys. G, [nucl-ex/0411010].
- Chujo, T. for the PHENIX Collaboration, “Particle Composition at High p_T in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV”, AIP conference proceedings 698: 732-734 (2004), [nucl-ex/0308016].
- Chujo, T. for the PHENIX Collaboration, “Results on Identified Charged Hadrons from the PHENIX Experiment at RHIC, Nucl. Phys. A721, 273c (2003), [nucl-ex/0212014].
- Chujo, T. for the PHENIX Collaboration, “Results on Identified Hadrons from the PHENIX Experiment at RHIC, Nucl. Phys. A715, 151c (2003), [nucl-ex/0209027].
- Chujo, T. et al. (PHENIX Collaboration), “PHENIX Central Arm Particle I.D. Detectors”, Nucl. Instrum. Meth. A499: 508, 2003.
- Chujo, T. et al. (PHENIX Collaboration), “Event reconstruction in the PHENIX central arm spectrometers.” Nucl. Instrum. Meth. A482: 491, 2002.
- Chujo, T. for the AGS-E802/866 Experiment, “Hadron Production in Au+Au Collisions at 4 A GeV from AGS-E866”, Prog. Theor. Phys. Suppl. 129:173, 1997.
- Chujo, T. et al. “A gas Cherenkov counter with a timing resolution of 30 ps for relativistic heavy ion Experiments”, Nucl. Instrum. Meth. A383: 409, 1996.

CURRENT RESEARCH:

- Multi-gap Resistive Plate Chamber (MRPC) R&D for the PHENIX Experiment high p_T PID upgrade project.
- Data analysis on identified single particle spectra at RHIC.
- Study of resonance particle productions in p+p, d+Au and Au+Au collisions at RHIC.

TALKS GIVEN: (2000-present)

2004

- “Hadron Production at Intermediate pT at RHIC” **[invited talk]**, Hot Quarks 2004 (Workshop for young scientists on the physics of ultra-relativistic nucleus-nucleus collisions), Taos Valley, NM, July 18-24, 2004.
- “Physics at Intermediate pT as QGP probes” **[invited talk]**, JPS 2004 fall meeting, Kochi University, Japan, Sep. 29, 2004.
- “PHENIX TOF Upgrade Project” **[invited talk]**, CAARI 2004 (18th International Conference on the Application of Accelerator in Research and Industry, Downtown Ft Worth TX, Oct. 10-15, 2004.
- “First Measurement of Identified Charged Hadron Production at $\sqrt{s_{NN}} = 62.4$ GeV Au+Au in RHIC-PHENIX”, DNP 2004 fall meeting, Hyatt Regency Hotel, Chicago, IL, Oct. 27-30, 2004.

2003

- “Particle Composition at High Transverse Momentum in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV”, CIPANP 2003 (Conference on the Intersections of Particle and Nuclear Physics), Grand Hyatt Hotel, NY, May 19-24, 2003.
- “Hot and Dense Matter at RHIC – from a hadron production viewpoint –”, Seminar given at Los Alamos National Laboratory, NM, June 25, 2003.
- “Identified Charged Particle Spectra and Yields in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV” **[invited talk]**, (based on the publication nucl-ex/0307022), Nuclear Physics Seminar, BNL, August 19, 2003.
- “Hadron Production at High pT and Jet Quenching” **[invited talk]**, RHIC Symposium at JPS meeting, Miyazaki (Japan), Sep. 9, 2003.
- “Hadron Production at RHIC” **[invited talk]**, RCNP workshop, Osaka Univ., Osaka (Japan), Oct. 27, 2003.

2002

- “Identified Charged pT spectra in Au+Au Collisions at RHIC-PHENIX” Spring 2002 JPS meeting at Ritsumeikan Univ., Shiga, Japan, Mar. 25, 2002.
- “Overview of PHENIX Results on Baryons and Identified Hadrons” **[invited talk]**, Baryon Dynamics at RHIC (Riken BNL Research Center Workshop), at BNL, NY, Mar. 28, 2002.
- “Results on Particle Yields from the PHENIX Experiment at RHIC” **[invited talk]**, the XVI International Conference on Ultra-relativistic Nucleus-Nucleus Collisions (Quark Matter 2002), at Nantes, France, from July 18 to July 24, 2002.
- “Results on Charged Particle Spectra from the PHENIX Experiment at RHIC”, the XVI International Conference on Particles and Nuclei (PaNic02), Osaka, Japan, September 30 - October 4, 2002.

2001

- “Identified Charged Single Particle Spectra at RHIC-PHENIX”, CNS Workshop at Tokyo Univ. (Japan), Feb. 14, 2001.
- “Hadron Production at RHIC-PHENIX”, **[invited talk]**, RHIC Symposium in JPS meeting at Chuo Univ., Tokyo (Japan), Mar. 27, 2001.
- “Results on soft physics: Flow, spectra and flavor composition from PHENIX” **[invited talk]**, RHIC-INT Workshop at LBNL, CA, Jun. 2, 2001.
- “Phi meson production in Au+Au collisions at RHIC”, HAWAII 2001, First joint meeting of DNP of APS/JPS at Maui, Hawaii, Oct. 21, 2001.

2000

- “Identified Charged Hadron Spectra in Au+Au Collisions at $\sqrt{s_{NN}} = 130$ GeV in the PHENIX Experiment at RHIC”, Fall 2000 APS DNP meeting, Williamsburg, VA, Oct. 6, 2000.
- “Time of Flight Detector at RHIC”, **[invited talk]**, CAARI2000 at Univ. of North Texas, TX, Nov. 1, 2000.

REFERENCES:

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