

Introduction to the ICCHIBAN Experiment

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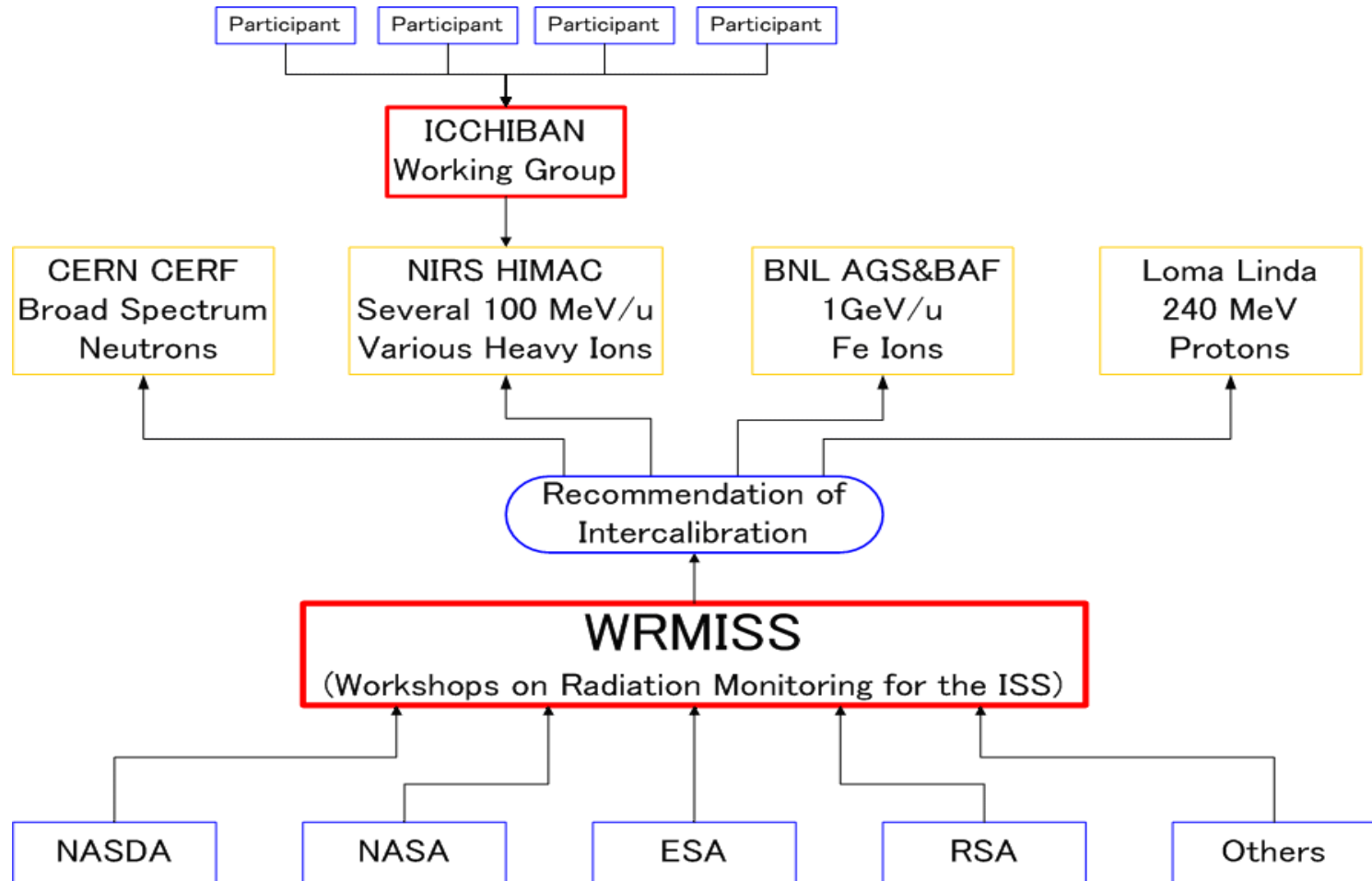
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and E. Benton (Eril Research Inc.)
on behalf of ICCHIBAN Working Group and Participants

ICCHIBAN Project is ...

InterComparison of Cosmic-rays
with Heavy Ion Beams At NIRS

and “ICCHIBAN” means “No. 1” in Japanese

Intercomparison Program



Objectives of ICCHIBAN

- Determine **the response of space radiation dosimeters** to heavy ions of charge and energy similar to that found in the galactic cosmic radiation (GCR) spectrum.
- **Compare response and sensitivity** of various space radiation monitoring instruments. Aid in **reconciling differences** in measurements made by various radiation instruments during space flight.
- Establish and characterize a heavy ion “**reference standard**” against which space radiation instruments can be calibrated.

Working Group

- Yukio Uchihori (Project Coordinator), NIRS, Japan
- Kazunobu Fujitaka (Chair), NIRS, Japan
- Eric Benton (Deputy Project Coordinator), Eril Research, USA
- Nakahiro Yasuda (Deputy Project Coordinator), NIRS, Japan
- Hisashi Kitamura, NIRS, Japan
- Masashi Takada, NIRS, Japan
- Tadayoshi Doke, Waseda University, Japan
- Cary Zeitlin, LBNL, USA
- Jack Miller, LBNL, USA
- Takeshi Takashima, Nagoya Univ., Japan

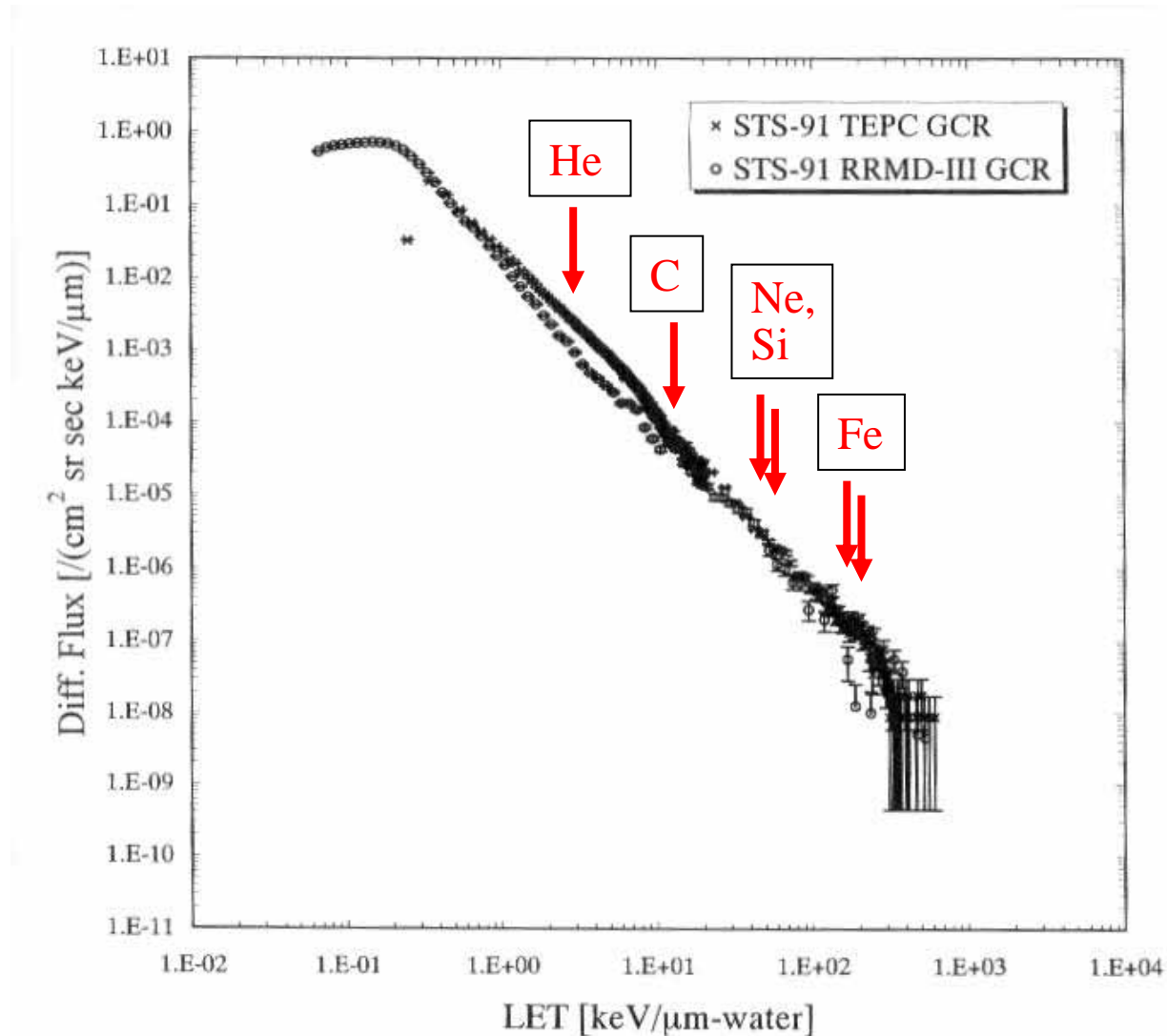
ICCHIBAN Runs

- Opportunity for two or three runs per year.
 - **Odd Number ICCHIBAN Run:** active detectors
 - With Pencil Beam at Physics Experiment Room
 - **Even Number ICCHIBAN Run:** passive detectors
 - With Wide, Uniform Beam at Biology Experiment Room

History of ICCHIBAN runs

Sep. 12-14, 2001	6 th WRMISS Workshop in Oxford
Feb. 11-13, 2002	1 st ICCHIBAN Experiment (For Active Detectors)
May 23-28, 2002	2 nd ICCHIBAN Experiment (For Passive Detectors)
Sep. 2-4, 2002	7 th WRMISS Workshop in Paris
Feb. 3-6, 2003	3 rd ICCHIBAN Experiment (For Active Detectors)
May 19-30, 2003	4 th ICCHIBAN Experiment (For Passive Detectors)
Sep. 3-5, 2003	8 th WRMISS Workshop in Berkeley
Sep. 6-7, 2003	1 st Proton ICCHIBAN Experiment (For All Detectors)
Feb. 14-17, 2004	5 th ICCHIBAN Experiment (For Active Detectors)

Covered LET Region in ICCHINBAN Experiments



T.Doke et al.,
Rad. Meas. 33
(2001) 373