

Forming Ashra Collaboration

2004.01.09

Chairman: Makoto Sasaki

Attendance

- **US**

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- Tom Browder
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- Bob Mitiguy
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- **Taiwan**

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- **Japan**

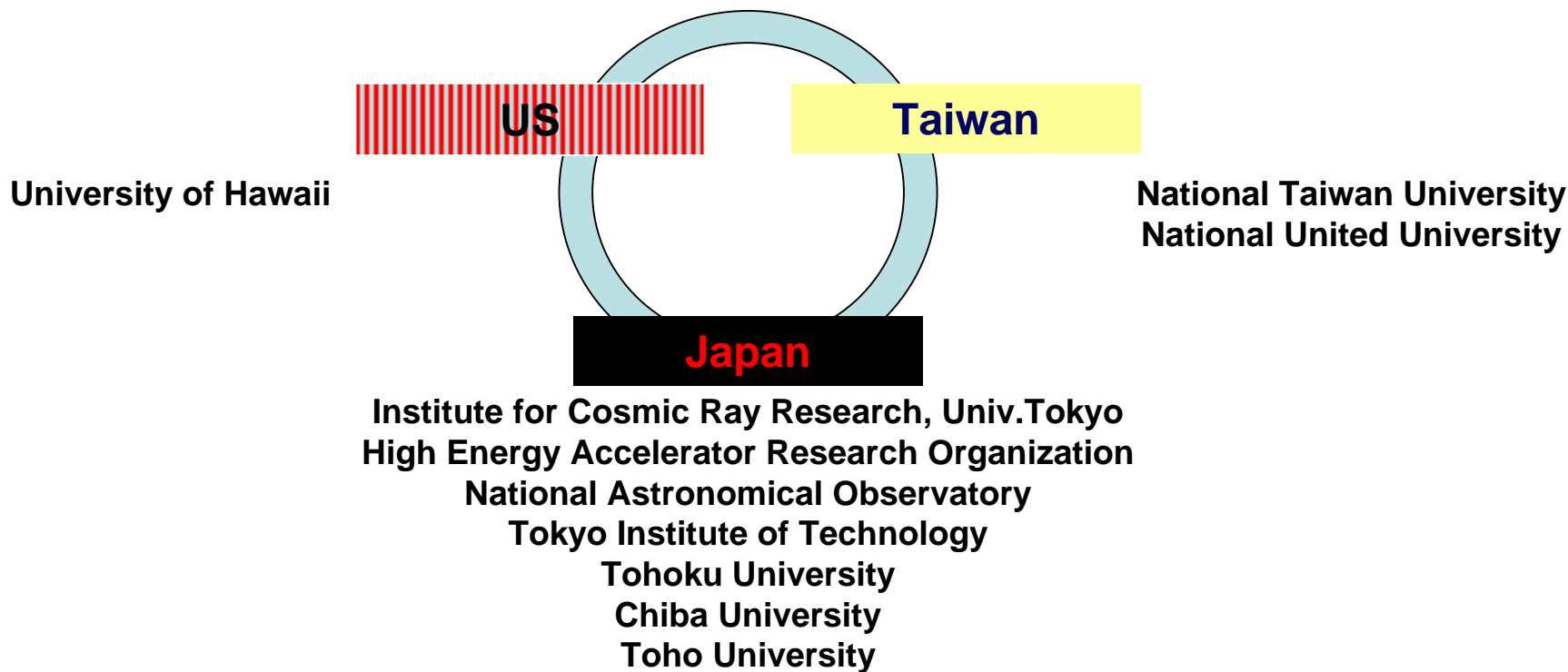
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Ashra Collaboration

under development



**Y.Aita, Y.Arai, Y.Asaoka, T.Browder, F.Fukagawa, T.Hayashino, W.S.Hou,
Y.B.Hsiung, M.A.Huang, M.Ieiri, M.Jobashi, H.Kuze, J.Learned,
N.Manago, T.Masuda, S.Matsuno, K.Noda, S.Ogawa,
A.Okumura, S.Olsen, K.Sakurazawa, M.Sasaki,
N.Sugiyama, N.Ujiie, H.Usami, M. Z. Wang,
Y.Watanabe, S.Yamada, M.Yasuda**



US

University of Hawaii

Taiwan

National Taiwan University
National United University

Japan

Institute for Cosmic Ray Research, Univ.Tokyo
High Energy Accelerator Research Organization
National Astronomical Observatory
Tokyo Institute of Technology
Tohoku University
Chiba University
Toho University

Task and Commitment

- Funding from US and Taiwan.
- => English TDR
- First of all, we should decide how to share tasks and commitment

The Budget 157-20004100

- Covered:
 - Optics
 - Lens IIT
 - Image Pipeline (UT,NTU)
 - Mechanical Assembly (UT)
 - Fine CMOS Sensor(KEK)
 - Trigger Sensor (UT,IU,UH?)
 - Trigger electronics(NTU,UT)
 - Imaging Lidar (CU,UH/HPU?)
- Not Covered:
 - Station(UH,UT)
 - Off-site Office (admin)
 - Control room (admin)
 - Atm. monitor(UU,UH,HPU)
 - Civil Engineering(UH,HPU)
 - Network&Comp.(UH)
- Budget commitment
 - NSF proposal (UH,HPU)
 - Increase optics box (NTU)
 - DAQ boards (NTU)
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Working Group

- Image Pipeline: Sasaki
- Optics: Asaoka
- CMOS sensor: Arai
- Trigger:
 - Cherenkov: Y.Hsiung
 - Neutrino
 - Gamma
 - Fluorescence: Sasaki
 - Neutrino
 - CR
- Environmental: Kuze
- Site: J.Learned
- Test Observation
 - TeV-gamma: Okumura
 - Optical Flash: Manago
 - Ashra/NuTel: M.Wang
- Analysis & MC work:
 - Framework: Ping
 - Detector: Okumura?
 - TeV-gamma: Y.Asaoka
 - VHE-neutrino: M.Wang
 - UHECR: M.Sasaki?

Steering Committee

J.Learned, S.Dye

W.Hou, Y.Hsiung

M.Sasaki, H.Kuze

Ashra System

研究代表者
Principal Inves.
佐々木真人

Spokesperson

Collaboration Council

・運営会議統括 M.Sasaki

運営会議

メンバー：浅岡陽一、新井康夫、小川了、久世宏明、佐々木真人、杉山直、林野友紀、渡邊靖志

Japan: Y.Asaoka, Y.Arai, S.Ogawa, H.Kuze, M.Sasaki, N.Sugiyama, Y.Hayashino, Y.Watanabe

Technical

Collaboration Chair

Physics

US: J.Learned, S.Olsen T.Browder, E.Guillian, S.Matsuno, S.Dye

Taiwan: W.Hou, Y.Hsiung, M.Wang, K.Ueno, G.Lin, A.Minghuey

Working Group

超高速インテリジェントカメラ

- ・光電撮像パイプライン
佐々木
- ・CMOSセンサー
新井
- ・トリガー装置に関する研究
佐々木

高精度広角光学系

- ・高精度広角光学系の精密加工
佐々木
- ・高精度大口径光電光学系
浅岡

環境科学との融合

- ・ライダーによる大気汚染
久世
- ・大気透明度モニター
佐々木

宇宙・素粒子科学との融合

- ・超高エネルギー加速天体
杉山
- ・超高エネルギー素粒子検出
小川
- ・超高エネルギー天体を用いた素粒子物理学
渡邊
- ・超高エネルギー天体と既知天体との相関
林野

Governance

Funding Strategy

Plan

- Collab.Meeting
Aug.23-25, 2004
Winter
- Video Monthly Meeting
2nd Friday in Asia
11:00 Taiwan
 - 12:00 Tokyo
 - 17:00 Hawaii
- March, 2004:
 - Extended Steering Mt.
- Collaboration MOU
 - Belle MOU =>
- TDR by next meeting
- Circulate assignments
- Web page+Mail Archive
 - Okumura + JGL+SD
- Experimental Schedule
 - Haleakala obs. starts April
 - Opt.Flash starts April
 - Ashra/NuTel starts Fall
 - P1/3 available April