

# The 3rd e-VLBI Workshop

## Program

October 6 (Wed.)

### Session 1      General Review (Chair : Wolfgang Schlüter)

- 10:00-10:05      Hiroshi Kumagai (NICT)  
Welcome
- 10:05-10:25      Fujinobu Takahashi (Yokohama National University)  
The Study of Sustainable System Design for Global e-VLBI Networks
- 10:25-10:55      T. Charles Yun (Internet2)  
e-VLBI and Internet2: Update and Future
- 10:55-11:25      Stephen M. Parsley (JIVE)  
eVLBI in Europe, a General Perspective
- 11:25-11:55      Yasuichi Kitamura (NICT)  
High performance infrastructure for e-VLBI

Lunch (11:55-13:30)

- 13:30-14:00      Alan R. Whitney (MIT Haystack Observatory)  
Real-time e-VLBI Experiments at Haystack Observatory
- 14:00-14:30      Anastasios K. Tzioumis (ATNF, CSIRO)  
eVLBI progress in Australia

### Session 2      High Speed Data Transfer over the Network (Chair : Stephen M. Parsley)

- 14:30-14:50      David E. Lapsley (MIT Haystack Observatory)  
e-VLBI Network and Platform Monitoring
- 14:50-15:10      Masaki Hirabaru (NICT)  
Performance Measurement on Large Bandwidth-Delay Product  
Networks

Break (15:10-15:30)

- 15:30-16:00 David E. Lapsley (MIT Haystack Observatory)  
VSI-E Implementation and Results
- 16:00-16:20 Hiroshi Sakamoto (University of Tokyo, ICEPP)  
LHC Computing Grid : A Globally Distributed Analysis Infrastructure  
for High Energy Physics
- 16:20-16:40 Jun Matsukata (National Institute of Informatics)  
Thoughts on Information Communication Infrastructure for the  
Research Educational Network
- 16:40-17:00 Noriyuki Kawaguchi (NAOJ)  
The e-VLBI Operations on Three Stations at 2.5-Gbps in Japan

Banquet (18:00-20:00) at "Marine" (Main Tower 4F)

## October 7 (Thu.)

### Session 3 Reports of Developments and Results (Chair : Jon Romney)

- 9:00-9:20 Hiroshi Takeuchi (NICT)  
Ongoing e-VLBI Developments with K5 VLBI System
- 9:20-9:40 Tetsuro Kondo (NICT)  
Current status of K5 software correlator
- 9:40-10:00 David E. Lapsley (MIT Haystack Observatory)  
Design of Experiment Guided Adaptive Endpoint
- 10:00-10:20 Yasuhiro Koyama (NICT)  
Rapid turn around UT1 estimation with e-VLBI

Break (10:20-10:40)

- 10:40-11:00 Ryuichi Ichikawa (NICT)  
Throughput Test of Satellite Data Transmission for Space Geodesy  
using the TCP/IP link in the South Pacific
- 11:00-11:20 Mamoru Sekido (NICT)  
Astrometric VLBI observation of Spacecraft with phase delay

**Session 4      Future Plans and Regional Status Reports  
(Chair : Mamoru Sekido, Yasuhiro Koyama)**

- 11:20-11:40      Makoto Miyoshi (NAOJ)  
A sub-mm VLBI network, Horizon Telescope II
- 11:40-12:00      Hisashi Hirabayashi (JAXA, ISAS)  
Space-VLBI after VSOP, RadioAstron Age

**Lunch (12:00-13:30), Asia Pacific Telescope (APT) Meeting**

- 13:30-13:50      Hiroshi Sudou (Gifu University)  
The feasibility and Scientific Goals of the Japanese e-VLBI System
- 13:50-14:10      Xiuzhong Zhang (Shanghai Astronomical Observatory)  
The eVLBI in Chinese VLBI Network
- 14:10-14:30      Zheng Wen Sun (Urumqi Astronomical Observatory)  
Status of VLBI and e-VLBI in Urumqi Astronomical Observatory
- 14:30-14:50      Arpad Szomoru (JIVE)  
Recent eVLBI developments at JIVE

**Break (14:50-15:10)**

- 15:10-15:30      Jouko J. Ritakari (Metsähovi Radio Observatory)  
Recent eVLBI developments at Metsähovi
- 15:30-15:50      Mauro Nanni (CNR Ist. Radioastronomia)  
E-vlbi in Italy

**Session 5      Discussions  
(Chair : Alan Whitney)**

- 15:50-16:30      All Participants  
Discussions
- 16:30-16:35      Taizoh Yoshino (Mitsubishi Electric Co.)  
Closing Remarks

## Posters

- P-1 David E. Lapsley (MIT Haystack Observatory)  
Experiences of Upgrading to 2.5 Gbps using DWDM Technology
- P-2 David E. Lapsley (MIT Haystack Observatory)  
The Application of Cluster Computing to e-VLBI
- P-3 Kevin A. Dudevoir (MIT Haystack Observatory)  
Mark 5 Network Performance Issues
- P-4 Gino Tuccari (IRA - INAF)  
E-LFVN - An Internet Based VLBI Network
- P-5 Moritaka Kimura (NICT)  
High Performance PC based Gigabit VLBI System
- P-6 Yasuhiro Murata (JAXA)  
Current Status of the Next Generation Space VLBI Mission: VSOP-2
- P-7 Yusuke Kono (NAOJ)  
Broadband VLBI Data Downlink of VSOP-2