

e-VLBI and the Path to the SKA
9th International e-VLBI Workshop
At the South Perth Zoo

October 18 – 20, 2010
International Centre for Radio Astronomy Research
Curtin University
Perth, Australia

PROGRAM

Monday October 18

08:30 – 09:00 Registration

09:00 – 09:10 Welcome and introduction (Steven Tingay)

Session 1: Galactic science

09:10 – 09:40 James Miller Jones (invited)
VLBI observations of Galactic X-ray binary sources

09:40 – 10:00 Aquib Moin
e-VLBI of Circinus X-1

10:00 – 10:30 Toby Potter (invited)
e-VLBI observations of SN1987A and interpretation

10:30 – 11:00 Morning Tea (sponsored by CSIRO)

11:00 – 11:20 Jun Yang
A decelerating jet observed by the e-VLBI initiated observations in the
new X-ray transient XTE J1752-223

Session 2: Extragalactic science

11:20 – 11:50 Marcello Giroletti (invited)
Joint e-VLBI/VHE observations of M87

11:50 – 12:10 Hayley Bignall
Global e-VLBI observations of the enigmatic narrow-line Seyfert I PMN
J0948+0022

12:10 – 12:30 Shane O'Sullivan
Extreme Faraday rotation in high redshift ($z > 3$) jets

12:30 – 13:30 Lunch (sponsored by Poseidon Scientific Instruments)

13:30 – 13:50 Zsolt Paragi
Constraints on early expansion in type Ib/c SNe with VLBI

Session 3: *Technical developments for e-VLBI [1]*

13:50 – 14:20 Arpad Szomoru (invited)
NEXPreS

14:20 – 14:40 Mark Kettenis
Automated distributed correlation on a shared computing infrastructure

14:40 – 15:10 Chris Phillips (invited)
DiFX2.0: Faster, Better, Flexible

15:10 – 15:30 John Morgan
DiFX in the multi-Gb era

15:30 – 16:00 Afternoon tea (sponsored by ICRAR)

Session 4: *Regional updates*

16:00 – 16:20 Zhiqiang Shen
Status of e-VLBI development in China

16:20 – 16:40 Simone Bernhart
e-VLBI at the Bonn correlator

16:40 – 17:00 Sergei Gulyaev
New Zealand development toward e-VLBI

17:00 – 17:20 Tasso Tzioumis
An update on future e-VLBI plans in Australia

17:20 Day 1 close

18:00 – 21:00 Sundowner and dinner (sponsored by Horizon Power)

Tuesday October 19

Session 5: Technical developments for e-VLBI [2]

- 09:00 – 09:20 Jan Wagner
Mark5 data streaming using the FILA10G
- 09:20 – 09:40 Chester Ruszczyk
Mark5C status and development
- 09:40 – 10:10 Alan Whitney
The Haystack 2nd generation digital-backend system (RDBE)
- 10:10 – 10:30 Martin Ettl
SysMon, a monitoring concept for VLBI and more
- 10:30 – 11:00 Morning tea (sponsored by CSIRO)
- 11:00 – 11:20 Maria Rioja
“Multi-beam” capabilities for high precision astrometry at low frequencies using VLBI
- 11:20 – 11:40 Hiroshi Takeuchi
VLBI experiments for the orbit determination of the IKAROS spacecraft
- 11:40 – 12:00 Chris Phillips
VTP – VDIF transport protocol
- 12:00 – 12:30 Poster sparkler talks (if needed) and moderated discussion
- 12:30 – 13:30 Lunch (sponsored by IVEC)

Session 6: On the path to the SKA

- 13:30 – 14:00 Olaf Wucknitz
e-VLBI with metre waves: progress with the international LOFAR baselines
- 14:00 – 14:20 Lisa Harvey-Smith
Data requirements for the SKA
- 14:20 – 14:40 Tim Colegate
A cost-effective network architecture for the high angular resolution component of the SKA
- 14:40 – 15:00 Melanie Johnston-Hollitt

Future New Zealand Activities in Radio Astronomy: Building Capability
for the Square Kilometre Array

15:00 – 15:30 Afternoon tea (sponsored by ICRAR)

15:30 – 16:00 Michael Bietenholz (invited)
MeerKAT and HartRAO: The Future of e-VLBI in South Africa

16:00 – 16:20 Steven Tingay
ASKAP and e-VLBI/VLBI

16:20 – 16:40 Open Discussion

16:40 – 17:00 Jean-Pierre Macquart
Conference summary and final discussion

17:00 Day 2 close