

REPORT ON THE RADIONET3 NETWORKING ACTIVITY

TITLE: MID FREQUENCY APERTURE ARRAYS AND DISHES – MAAD 2015

DATE:	<i>19-22ND APRIL</i>	TIME: (WHOLE DAY)
LOCATION:	<i>AVEIRO - PORTUGAL</i>	
MEETING WEBPAGE	<i>http://www.engageska-portugal.pt/events/maad/</i>	
HOST INSTITUTE:	<i>INSTITUTO DE TELECOMUNICAÇÕES</i>	
PARTICIPANTS NO:	<i>59</i>	
MAIN LEADER:	<i>MPG</i>	

REPORT:

1. Programme of the meeting

See attachment.

2. Scientific Summary

MAAD 2015 is a synergy workshop between MIDPREP project and the SKA Mid Frequency Aperture Array (AAMID) Consortium All-hands meetings and SKA Dish Consortium (SKADC) taking place in the same venue. In these meetings, relevant science and technology developments for the establishment of long-term radio astronomy plans towards SKA were discussed. MIDPREP is an EU funded FP7 programme enabling knowledge and staff exchange between two leading European institutes in research and three South African partners. The partners collaborate in developing and building radio astronomy instrumentation e.g. through the Square Kilometre Array precursor MeerKAT in the Karoo as framework for (inter)national human-capital, research and infrastructure. In Europe, novel approaches to radio astronomy (i.e. Aperture Array technology) as used in the Low Frequency Array ("LOFAR") and Wideband Single Pixel Feed Receivers give insight in gaps to be filled and requirements for future radio telescopes. For the SKA as the world largest radio telescope operating in the next decade, with a large part to be realized in the Karoo, a common long-term focus is developing requiring intensified knowledge exchange.

Specifically, MIDPREP organizes for strengthening relevant research networks through exchange of experienced and early-stage radio scientists and engineers between South African institutes to and from Sweden and the Netherlands. Through that, MIDPREP aims at a common design view on site related aspects for radio telescopes, to advance radio-optics, calibration, ICT, processing and technology views and (possibly "green") designs on MID-SKA centered in the Karoo. Knowledge from the project will be disseminated to a larger community by annual workshops, out of which this workshop is the second.



3. Attendance list (incl. participant names, affiliation and country) signed by the participants and confirmed by the organizer

See attachment.

4. Financial Report / RadioNet3 contribution

Radionet3 support of 4305,01€ was used for local organisation.

5. Conference Proceedings and Web page

Information on the workshop, parallel meetings, participants and venue can be found at the meeting web page: <http://www.engageska-portugal.pt/events/maad/>

Presentations made at the meeting will be posted on the *RadioNet3* wiki of the Networking Activity when possible: <http://www.radionet-eu.org/radionet3wiki/>

MAAD 2015

19th - 22nd APRIL

AAMID AND DISH CONSORTIA MEETINGS
MIDPREP WORKSHOP

ORGANISERS



SPONSORS



AGENDA AAMID all-hands meeting – April 21-22, 2015 – IT, Aveiro (PT)

21-April	IT	
9.00	MFAA System Design	Andre Gunst
9.30	MFAA (alternative) architecture	Steve Torchinsky
10.00	Requirements analyses	Mark Ruiter
10.30	<i>Coffee break</i>	
11.00	Front-end Design pt1	David Zhang (Beltran, Gilmore, KLAASA, Witvers, RvdBrink, Sangitiana Rakotozafy)
12.30	<i>Lunch</i>	
13.30	Front-end Design pt2	David Zhang
14.00	Receiver: Analogue Integration	Stéphane Bosse
14.30	Receiver: ADC/serializer	Stéphane Gauffre
15.00	<i>Tea break</i>	
15.30	Array Proto Types	Pieter Benthem (+vd Brink)
	Wrap-up, discussion	
18.00	Close day2	
19.30	<i>Dinner</i>	

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SPONSORS



Horizon 2020
Programme



AGENDA AAMID all-hands meeting – April 21-22, 2015 – IT, Aveiro (PT)

22-April	IT	
9.00	MFAA Verification Systems	Andrew Faulkner+all
10.30	<i>Coffee break</i>	
11.00	SRR documentation	Gunst, Gerbers
12.30	Discussion	
12.30	<i>Lunch</i>	
14.00	AAMID Progress meeting	By invitation, MT members+SKAO
15.30	Adjourn	

Name	Organisation	Value	Invoice Number
Maria Grazia Labate	SKA	0	0
Anthony Brown	University of Manchester	0	0
Carla V. Leite	Instituto de Telecomunicações	0	0
Domingos Barbosa	Instituto de Telecomunicações	0	0
João Paulo Barraca	Instituto de Telecomunicações	0	0
Miguel Bergano	Instituto de Telecomunicações	0	0
Truus van den Brink-Havinga	ASTRON	0	0
Kristian Zarb-Adami	University of Oxford	60	FR-2015-0001
Michael Jones	University of Oxford	60	FR-2015-0002
Jamie Leech	University of Oxford	60	FR-2015-0003
Angela Taylor	University of Oxford	60	FR-2015-0004
Andre Gunst	ASTRON	60	FR-2015-0005
Raymond van den Brink	ASTRON	20	FR-2015-0006
Mark Ruiter	ASTRON	60	FR-2015-0007
Roel Witvers	ASTRON	60	FR-2015-0008
Gert Kruithof	ASTRON	60	FR-2015-0009
Pieter Benthem	ASTRON	60	FR-2015-0010
Marchel Gerbers	ASTRON	60	FR-2015-0011
Jan Geralt Bij de Vaate	ASTRON	60	FR-2015-0012
Arnold van Ardenne	ASTRON	20	FR-2015-0013
Girish Kumar Beeharry	University of Mauritius	60	FR-2015-0014
Michiel Van Haarlem	ASTRON	60	FR-2015-0015
Ed Elson	University of Cape Town	60	FR-2015-0016
Wim van Cappellen	ASTRON	60	FR-2015-0017
Stefan J. Wijnholds	ASTRON	60	FR-2015-0018
Tobia Carozzi	Onsala Space Observatory	60	FR-2015-0019
Miroslav Pantaleev	Onsala Space Observatory/Chalmers University	60	FR-2015-0020
Bhushan Billade	Onsala Space Observatory	60	FR-2015-0021
Andrew Faulkner	University of Cambridge	60	FR-2015-0022
Alberto Barcia	Instituto Geográfico Nacional	60	FR-2015-0023
Juan Daniel Gallego	Instituto Geográfico Nacional	60	FR-2015-0024
Mikko Kotiranta	Fraunhofer IAF	60	FR-2015-0025
Giuseppe Moschetti	Fraunhofer IAF	60	FR-2015-0026
Eduardo Artal	University of Cantabria	60	FR-2015-0027
Beatriz Aja	University of Cantabria	60	FR-2015-0028
Alessandro Bau'	Università degli Studi di Milano-Bicocca	60	FR-2015-0029
Mario Zannoni	Università degli Studi di Milano-Bicocca	60	FR-2015-0030
Jeff Wagg	SKA Organisation	20	FR-2015-0031
Andrea Cremonini	SKA	60	FR-2015-0032
Mark Harman	SKA	60	FR-2015-0033
Eloy de Lera Acedo	University of Cambridge	60	FR-2015-0034
David Zhang	University of Manchester	60	FR-2015-0035
Ming Yang	University of Manchester	60	FR-2015-0036
Rik Jongerius	IBM	60	FR-2015-0037
Oleg Smirnov	Rhodes University SKA	20	FR-2015-0038
Steve Torchinsky	Observatoire de Paris, Nançay	60	FR-2015-0039
Stéphane Bosse	Observatoire de Paris, Nançay	60	FR-2015-0040
Bruno Da Silva	Observatoire de Paris, Nançay	60	FR-2015-0041
Rakotozafy Harison	Observatoire de Paris, Nançay	60	FR-2015-0042
Du Biao	CETC54	60	FR-2015-0043
Wu Yang	CETC54	60	FR-2015-0044
Stephane Gauffre	University of Bordeaux - LAB	60	FR-2015-0045
Antsa Randriamanantena	University of Bordeaux - LAB	60	FR-2015-0046
Joel Schlee	Low Noise Factory	60	FR-2015-0047
Reinhard Keller	MPIfR	60	FR-2015-0048

Dominique Garbaye

Sheet1

David Davidson	Stellenbosch University	60	FR-2015-0049
David Prinsloo	Stellenbosch University	60	FR-2015-0050
Edgar Colin Beltran (and wife)	University of Cambridge	110	FR-2015-0051 e 0052
Isak Theron	EMSS Antennas	60	FR-2015-0053
Jean Kotze	EMSS Antennas	60	FR-2015-0054
Robert Lehmensiek	EMSS Antennas	60	FR-2015-0054
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