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AGENDA

4th SKADS WORKSHOP

2 - 3 October 2008 at Instituto Superior Técnico, IST, Lisbon

Purpose: Review SKADS progress
Identify any deliverables 'at risk'
Assess technological readiness of sub-systems
Plan successful completion of SKADS
Consider transition to PrepSKA

- Activity focussed around evolving Deliverables and technical readiness

- Mechanism
  - Arrange by topic
  - Need to deliver a viable and thought out design-scenario for SKA
  - Identify the difficult elements of the system design and the approach to their resolution

REGISTRATION

Reception and registration Wednesday, 1 October, 2008 from 18:30 till 20:00

Instituto Superior Técnico, *Salão Nobre (Building No.1 at IST map, 1st floor)*

Registration fee € 70,00, including dinner and lunch tickets.

DAY 1 Thursday 2 October

08.30	Registration and coffee			
09.00	***Opening and Welcome***		Professor Carlos Matos Ferreira, President of IST	
09.05	Introduction		Peter Wilkinson	UMan
09.20	Overview SKADS – into final year		Arnold van Ardenne	ASTRON
09.40	SKADS and SKA		Andrew Faulkner	UCam
09.55	SKADS Science and Engineering		Steve Torchinsky	OPar
10.10	***Science and Data Simulations***	Chair:	Thijs van der Hulst	
	Science Simulations overview	10 min	Steve Rawlings	UOxf
	Pulsars	10 min	Roy Smits	UMan
	An inventory of the SKADS tools to a full SKA simulation	10 min	Hans-Rainer Kloeckner	UOxf
	Epoch of Reionisation	10 min	Mario Santos	CENTRA-IST
	The evolution of magnetic fields in galaxies	10 min	Tigran Arshakian	MPIfR
11.00	*Coffee Break*			
11.20	Data simulations overview	10 min	Jan Noordam	ASTRON
	Array Configuration Studies	10 min	Dharam Vir Lal	MPIfR
	Simulated Observations	10 min	Robbie Auld	Cardiff
	SKADS Sky databases	10 min	Francois Levrier	UOxf
	Discussion	*10 min*		
12.10	*Lunch at Restaurant Diamantino*			
13.30	***System Design***	Chair:	Paul Alexander	
	Design and Costing - 2	20 min	Rosie Bolton	UCam
	AA simulations	10 min	Ben Mort	UOxf
	SD - 1	10 min	Laurens Bakker	ASTRON
	SD - 2	10 min	Philippe Picard	OPAR
	Sensitivity, the challenges	20 min.	Jan Geralt bij de Vaate	ASTRON
	Discussion	*10 min*		
14.50	***Technologies – 1a***	Chair:	Jan Geralt bij de Vaate	
	EMBRACE	20 min	Dion Kant	ASTRON
	Prototype tile measurements	10 min	Mark Ruiter	ASTRON
	Solar drift scans	10 min	Henrik Olofsson	OPAR
15.30	*Tea Break*			

15.50 ***Technologies – 1b***

Antenna simulation, realization and verification	10 min	Michel Arts	ASTRON
Antenna simulations	10 min	David Zhang	UMan
CMOS for LNA's	10 min	Leo Belostotski (presented by Andrew Faulkner)	Uni Calgary
Progress in differential amplifiers	10 min	Oscar Garcia Pérez	FG
Results with InP	10 min	Boume Boudjelida	UMan
Progress in LNA's using GaAs and SiGe	10 min	Danielle Kettle (presented by Jan Geralt bij de Vaate)	UMan
Discussion	*10 min*		

17.00 ***Technologies - 2*** Chair: Mike Jones

2-PAD	20 min	Georgina Harris/Tony Brown	UMan
2-PAD from antennas to beamforming	10 min	Kris Zarb Adami	UOxf
Analogue beamforming	10 min	Séverin Barth	OPAR
Digital beamforming	10 min	Aziz Ahmedsaid	UMan
Processing technologies	10 min	Chris Shenton	UMan
Discussion	*10 min*		

18.10 *Close*

19.30 *Conference dinner:*

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(for directions please visit the workshop webpage http://gamow.ist.utl.pt/~centra/4thSKADS/)

DAY 2 **Friday 3 October**

8.30	***Technologies - 3***		Chair:	Wim van Driel	
	BEST		20 min	Stelio Montebugnoli	INAF-IRA
	BEST receivers		10 min	Jader Monari	INAF-IRA
	BEST optical links		10 min	Federico Perini	INAF-IRA
	Progress in Active Antenna Design & Development		10 min	Tim Finn	FG
	Wide area comms & phase transfer		20 min	Roshene McCool	SPDO
	RF fiber optics		10 min	Thomas Berenz	MPIfR
	RFI mitigation developments		10 min	Cédric Viou	OPAR
	Back-end processing		10 min	André Gunst	ASTRON
10.00	Technical Readiness Review		10 min	Andrew Faulkner	UMan
	Discussion		20 min		
10.30	*Coffee Break*				
10.55	From SKADS to PrepSKA, pathfinder status			Richard Schilizzi	SPDO
	Deliverable status review		Chair:	Andre van Es	
11.15	DS2-T1	Science simulations		Thijs van der Hulst	RUG
	DS2-T2	Data Simulations		"	
11.25	DS3-T1	Network Infrastructure & Data Transmission		Paul Alexander	UCam
	DS3-T2	Data Handling, Control & Dist. Computing		"	
	DS3-T3	Architecture and the Network Simulator		"	
	DS3-T4	A study of siting and related issues		"	
	DS3-T5	SKA for the user		"	
	DS3-T6	Scaleable design and implementation		"	
11.35	DS4-T1	Front End technologies		Andrew Faulkner	UMan
	DS4-T2	Signal Control & digitisation		"	
	DS4-T3	RFI mitigation techniques		"	
	DS4-T4	Wideband integrated antennas		"	
	DS4-T5	Beam forming at patch level		"	
	DS4-T6	The 2-PAD demonstrator		"	
11.45	DS5-T1	Design of EMBRACE		Dion Kant	ASTRON
	DS5-T2	Development of EMBRACE as a system		"	
	DS5-T3	EMBRACE assessment of performance		"	
11.55	DS6-T1	Design of sub-systems		Stelio Montebugnoli	INAF-IRA
	DS6-T2	Development and demonstration		"	
	DS6-T3	Assessment of performance		"	
	DS6-T4	Phased arrays on concentrators		"	
12.05	***Overall Discussion***		Chair:	Arnold van Ardenne	
12.20	Conclusions			Peter Wilkinson	UMan
12.30	*End of Workshop*				
	Lunch at Restaurant Diamantino				