

WP7 JRA RINGS

The main objective for RINGS (Radio Interferometry Next Generation Software) is to deliver advanced calibration algorithms for the next generation of radio astronomy facilities, characterized by a high sensitivity, a high bandwidth and long baselines ([RINGS Description](#)).

The RINGS partner: MPG, ASTRON, JIV-ERIC, UMAN, OSO, DIAS

The RINGS tasks:

- WP7.1 Methodology and approach [ASTRON, UMAN OSO, JIV-ERIC, MPG, DIAS]
- WP7.2 Polarimetry Conversion [OSO, DIAS]
- WP7.3: Multiband and Wide Band Fringe Fitting [JIV-ERIC, DIAS, MPG]
- WP7.4: Fringe Fitting with dispersive delays [UMAN, ASTRON, DIAS, MPG]
- Task 7.5: Advanced calibration algorithms for full-polarization interferometry data [OSO, DIAS]

This activity is lead by ASTRON - Leader G. Kruithof.

RINGS Meetings / Teleconferences

- 9 January 2017, Dwingeloo/NL - [RINGS Kick off](#)

Deliverables

The following deliverables are scheduled for WP7:

No	Del. Title	Lead beneficairy	Type	Dissem. level	Due date	Subm. date	Document
D7.1	Report State of the Art and Common Framework for Development	ASTRON	RE	Public	30.6.2017		
D7.2	Report on the strategies to combine results of first phase of tasks 7.2-7.5	ASTRON	RE	Public	31.12.2018		
D7.3	Final implementation of algorithms for polarimetry conversion	OSO	OTH	Public	30.06.2019		
D7.4	Final implementation of algorithms for multiband and wideband fringe fitting	JIV-ERIC	OTH	Public	30.06.2019		
D7.5	Final Implementation of algorithms for fringe fitting with dispersive delays	UMAN	OTH	Public	30.06.2019		
D7.6	Final implementation of advanced calibration algorithms	OSO	OTH	Public	30.06.2019		
D7.7	Verification of RINGS software on BRAND dataset	MPG	OTH	Public	31.12.2019		

D7.8	RINGS Final Report	ASTRON	RE	Public	30.06.2020		
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