

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\(RINGS Description\)](#).

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 J. McKean.

RINGS Meetings / Teleconferences

- 9 January 2017, Dwingeloo/NL - [RINGS Kick off](#)
- 20 April 2017, WP7.4 Telecon - [Minutes](#)
- 11 September 2017, Dwingeloo/NL - [RINGS workshop](#)
- 19 February 2018, Bonn/DE - [f2f meeting](#)
- 15 April 2019, Dublin/IR - [f2f meeting](#)

Deliverables

The following deliverables are scheduled for WP7:

No	Del. Title	Lead beneficiary	Type	Dissem. level	Due date	Subm. date	Document
D7.8	RINGS Final Report	ASTRON	RE	Public	30.06.2020	26.2.2021	D7.8
D7.7	Verification of RINGS software on BRAND dataset	MPG	OTH	Public	31.12.2019	13.11.2020	D7.7
D7.6	Final implementation of advanced calibration algorithms	OSO	OTH	Public	30.06.2019	07.12.2020	D7.6
D7.5	Final Implementation of algorithms for fringe fitting with dispersive delays	UMAN	OTH	Public	28.2.2020	2.3.2020	D7.5
D7.4	Final implementation of algorithms for multiband and wideband fringe fitting	JIV-ERIC	OTH	Public	28.2.2020	2.3.2020	D7.4

No	Del. Title	Lead beneficairy	Type	Dissem. level	Due date	Subm. date	Document
D7.3	Final implementation of algorithms for polarimetry conversion	OSO	OTH	Public	30.06.2019	1.7.2019	D7.3
D7.2	Report on the strategies to combine results of first phase of tasks 7.2-7.5	ASTRON	RE	Public	31.12.2018	10.01.2019	D7.2
D7.1	Report State of the Art and Common Framework for Development	ASTRON	RE	Public	30.6.2017	30.6.2017	D7.1

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