

## Monday, 19 September

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11.00 – 11.30 Registration, Coffee

11.30 – 13.00 Welcome, Background on Scintillometry, Chair: Franz Kirsten

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**Welcome, Scope of Workshop**, Ue-Li Pen (U Toronto, Toronto)

**Scintillometry – the turbulence Picture**, Jean-Pierre Macquart (ICRAR-Curtin, Perth)

**Scintillometry – the current sheet Picture**, Ue-Li Pen (U Toronto)

13.00 – 14.00 Lunch

14.00 – 15.30 MPIfR talks, Chair: Marten van Kerkwijk

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**The Large European Array for Pulsars**, Kuo Liu (MPIfR, Bonn)

**The Gravitational-Wave Universe seen by Pulsar Timing Arrays**, Chiara Mingarelli (MPIfR)

**GMRT and ORT : pulsars and prospects**, Viswesh Marthi (NCRA, Pune)

15.30 – 16.00 Coffee

16.00 – 17.30 **Discussion: Studying pulsars with scintillometry**, Chair: Ue-Li Pen

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## Tuesday, 20 September

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9.00 – 9.30 Coffee

9.30 – 11.00 Scintillometry and its applications, Chair: Dana Simard

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**On the size and orientation of binary orbits**, Paulo Freire (MPIfR)

**New science enabled by scintillometry: testing gravity, PTA resolution, resolving FRB scattering**, Ue-Li Pen (U Toronto, Toronto)

**FRB number counts**, Jean-Pierre Macquart (ICRAR-Curtin, Perth)

11.00 – 11.30 Coffee

11.30 – 13.00 The slowly changing ISM, Chair: I-Sheng Yang

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**Time domain scattering**, Aris Karastergiou (U Oxford, Oxford)

**Pulsar science with LOFAR single stations**, Caterina Tiburzi (U Bielefeld, Bielefeld)

13.00 – 14.00	Lunch
14.00 – 15.30	Lensing, Chair: Ue-Li Pen
	<b>Studying the ISM on AU scales through the secondary spectra of scintillating pulsars</b> , Dana Simard (U Toronto)
	<b>More lensing formalism</b> , Daniel Baker (U Toronto)
15.30 – 16.00	Coffee
16.00 – 17.30	<b>Discussion:</b> Studying the ISM with scintillation, Chair: Jean-Pierre Macquart

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### Wednesday, 21 September

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9.00 – 9.30	Coffee
9.30 – 11.00	Giant pulse studies: B1957+ The Crab, Chair: Rene Breton
	<b>Descattering Giant Pulses of B1957+20</b> , Marten van Kerkwijk (U Toronto)
	<b>Localizing the emission of the Crab's giant pulses</b> , Robert Main (U Toronto)
	<b>Radioastron Observations of Giant Pulses from the Crab Pulsar</b> , Alexey Rudnitskiy (ASC LPI RAS, Moscow)
11.00 – 11.30	Coffee
11.30 – 12.30	VLBI on Crab giant pulses, Chair: Jean-Pierre Macquart
	<b>VLBI at low frequencies – first fringes between the MWA and the GMRT</b> , Franz Kirsten (ICRAR-Curtin)
	<b>Probing the complicated scattering geometry of the Crab pulsar through VLBI</b> , Robert Main (U Toronto)
	<b>Colloquium at MPIfR</b> (12.45 – 13.15)
13.15 – 14.15	Lunch
14.15 – 15.30	<b>Discussions</b> , Resolving scattering screens using giant pulses and VLBI, Chair: Marten van Kerkwijk
15.30 – 16.00	Coffee
16.00 – 17.30	<b>Discussion</b> , Current projects and challenges
19.00 – 22.00	<b>Dinner at Boennsch</b>

## Thursday, 22 September

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9.00 – 9.30 Coffee

9.30 – 11.00 The longest baselines: Scintillometry with RadioAstron, Chair: Nikhil Mahajan

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**Cosmic Prisms in Interferometry, Pulsar Timing and Scintillation Arcs**, Carl Gwinn and the RadioAstron Pulsar Team

**Investigation of scattering material in the direction to PSR B0525+21 with space-ground interferometry**, Tania Smirnova (ASC LPI RAS, Moscow)

**Measuring RM variations with LOFAR: ISM vs. ionosphere**, Nataliya Porayko (MPIfR)

11.00 – 11.30 Coffee

11.30 – 13.00 The Magnetar at the Galactic Centre – 1745-2900, Chair: Daniel Baker

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**Latest results on 1745-2900**, Ralph Eatough (MPIfR)

**Probing interstellar scattering towards the Galactic centre with pulsar VLBI**, Olaf Wucknitz (MPIfR)

**Observing 1745-2900 with Black Hole Cam**, Michael Kramer (MPIfR)

13.00 – 14.00 Lunch

14.00 – 15.30 Canadian VLBI capabilities, Chair: Robert Main

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**400-800MHz VLBI in Canada: the ARO 46m, DRAO 26m Galt, and the 40m CHIME Pathfinder & 100m CHIME Telescope**, Keith Vanderlinde (U Toronto)

**VLBI between Arecibo and ARO**, I-Sheng Yang (U Toronto/Perimeter Institute, Toronto)

15.30 – 16.00 Coffee

16.00 – 17.30 **Discussion:** What is required to facilitate regular low frequency VLBI, Chair: Franz Kirsten

## Friday, 23 September

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9.00 – 9.30 Coffee

9.30 – 13.00 Tour to Effelsberg

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13.00 – 14.00 Lunch

~14.30 Return to MPIfR