

Scintillometry 2019 - Programme

The main Conference room is the lecture hall, room 0.02 in MPIfR

Monday

10:00 Registration and Coffee - Reception Hall

Introduction Block

10:40 Introduction / Opening Remarks

11:00 Dan Stinebring – Intro to single-station scintillation arcs

11:30 Dana Simard – Intro, scintillation arcs with multiple stations

12:00 - 1:00 Lunch Colloquium - Marten van Kerkwijk (AIFA Lecture Hall - Rm 0.012)

1:00 - 2:00 Lunch Break

Parabolic Arcs I (Chair Franz Kirsten)

2:00 Bill Coles – Anisotropy in Weak and Strong Scintillation

2:30 Barney Rickett - The Morphology of Scintillation Arcs: Observations and Theory

2:50 Dan Stinebring – Frequency Dependence of Scintillation Arcs

3:10 Discussion - Led by Dongzi Li

3:30 Coffee Break

Parabolic Arcs, cont. (Chair Ue-Li Pen)

4:00 Mikhail Popov – Compact Structures of interstellar plasma in the Galaxy revealed by RadioAstron

4:30 Barney Rickett - Arcs in the Milky Way

4:50 – 5:30 Discussion - Led by Jumei Yao

Tuesday

9:00 Coffee

Impulse Response Function (Chair Dan Stinebring)

9:30 Mark Walker – Holography via Dynamic Cyclic Spectroscopy

10:00 Nikhil Mahajan – Using giant pulses to deconvolve pulsar emission

10:20 Olaf Wucknitz – Mapping and Fitting 1D Scattering Screens

10:40 Tim Sprenger – Beamforming on Interstellar Screens

11:00 Coffee break

Crab Pulsar (Chair James McKee)

11:30 Rebecca Lin – Giant Pulse Emission Regions of the Crab Pulsar

11:50 Thierry-Serafin Nadeau – Echo Morphology of the Crab Pulsar

12:10 Akanksha Bij – Upward Drift in Crab Giant Pulses

12:30 Discussion - Led by Dana Simard

1:00 Lunch Break

FRBs and Special Scattering Environments (Chair Dongzi Li)

2:00 Lina Levin-Preston – The interstellar Medium of the Magellanic Clouds

2:30 Liam Connor - FRB emission over a decade

2:50 Hsiu-Hsien Lin – CHIME/FRB Detections of Crab's Giant Pulses with CHIME Holography

3:10 Robert Wharton – Multi-Frequency monitoring of the persistent radio source of FRB121102

3:30 Coffee Break

Pulsar Emission (Chair Laura Spitler)

4:00 Yogesh Maan – Using scintillation as a tool to search for off-pulse emission from short period pulsars

4:20 Vatsala Srivastava – Characterisation of pulsar emission and timing variabilities

4:40 Luo Jing – Detecting higher-order frequency-dependent time delays using B0329+54's microstructure

5 – 5:30 Discussion - Led by Laura Spitler

Wednesday

9:00 Coffee

Binaries and Annual Scintillation Rates (Chair Olaf Wucknitz)

9:30 Paulo Freire – Pulsar Binaries: What we can determine from timing

10:00 Daniel Reardon – Solving pulsar binary orbits using scintillation

10:20 Robert Main – Scintillation in PTA Pulsars using LEAP

10:40 Geetam Mall - Arc curvature and scattering variations of J1643-1224

11:00 Coffee break

Scintillation Arc Evolution (Chair Fang-Xi Lin)

11:30 Daniel Baker – Precise curvature measurements from the position-position spectrum

11:50 Dana Simard - Monitoring the scattered images of PSR B0834+06 over time

12:10 Ziwei Wu & Yulan Liu - Scintillation arc monitoring with LOFAR and EPTA pulsars

12:30 Discussion - Led by Marten van Kerkwijk

1:00 Lunch Break

2 – 4 “Birds of a Feather” - Hands on Collaboration time

4-5 Discussion

6:30 Conference Dinner at Tuscolo

Thursday

9:00 Coffee

Lensing & DM variations (Chair Robert Main)

9:30 Job Feldbrugge - Oscillatory path integrals for radio astronomy

10:00 Stefan Osłowski - Update on J1509+5531 and eclipses of J2051-0827

10:30 Artem Tuntstov – Rate annual cycles for two new IDV's and their implications for scattering plasma

11:00 Coffee break

Lensing & DM variations cont. (Chair Daniel Baker)

11:30 Dylan Jow – Effects of wave optics in Gravitational Microlensing

11:50 Dongzi Li - Current sheet as a model for quasar ESE

12:10 Fang Xi Lin – The curious DM events of J1713+0747

12:30 Discussion - Led by Olaf Wucknitz

1:00 Lunch Break

Future – new telescopes (Chair Dana Simard)

2:00 Jumei Yao – Pulsar interstellar scintillation study using FAST

2:30 Olaf Wucknitz / Alan Roy – Solar Power Arrays

2:50 Viswesh Marthi - The scattering screens towards PSR B1508+55 - the view from a 10000-km baseline

3:10-3:30 Coffee

3:30 – 5 Summary Discussion for the Workshop - Ue-Li Pen

Friday - Effelsberg Trip

9:30 Bus leaves to Effelsberg

10:30 - 12:30 Effelsberg tour

12:30 Return bus leaves to Bonn