



# Table of contents

Monday 14 October 2019 .....	1
Tuesday 15 October 2019 .....	2
Wednesday 16 October 2019 .....	3

# Challenges and Opportunities of High Frequency Gravitational Wave Detection | (smr 3493)

## Monday 14 October 2019

**Monday, 14 October 2019 - Adriatico Guest House - Kastler Lecture Hall (08:30-17:45)**

time	title	presenter
08:30	Registration & Administrative Formalities	
09:25	Welcome by Prof. Fernando Quevedo (ICTP Director)	
09:30	Introduction to Cosmological Sources of HFGW	DANIEL FIGUEROA
10:15	OzGrav HF: A detector for studying nuclear matter at extreme pressure, temperature and density	DAVID OTTAWAY
11:00	Coffee Break	
11:30	Discussion	CONVENER: VALERIE DOMCKE
12:30	Lunch Break	
14:00	Neutron star mergers and kHz gravitational-wave emission	ANDREAS BAUSWEIN
14:45	The Schenberg Gravitational Wave Antenna	ODYLIO AGUIAR
15:30	Coffee Break	
16:00	Experimental upper limits on (ultra) high-frequency gravitational waves and prospects for more: Magnetic conversion detectors and correlated interferometry	HARTMUT GROTE
16:45	Discussion	CONVENER: FRANCESCO MUIA

**Reception - Adriatico Guest House - Cafeteria (18:30-18:31)**

# Tuesday 15 October 2019

## Tuesday, 15 October 2019 - Adriatico Guest House - Kastler Lecture Hall (09:30-18:50)

time	title	presenter
09:30	Strategies for GW science at 1GHz and above	MIKE CRUISE
10:15	Gravitational waves from phase transitions	MARK HINDMARSH
11:00	Coffee Break	
11:30	Discussion	CONVENER: SEBASTIAN STEINLECHNER
12:30	Lunch Break	
14:00	Detecting high-frequency gravitational waves with optically-levitated sensors	ANDREW GERACI
14:45	Gravitational Waves from Inflation and Primordial Black Holes	MARCO PELOSO
15:30	Coffee Break	
16:00	Gravitational waves from preheating: parameter dependence	FRANCISCO TORRENTI
16:20	Gravitational Imprints of Flavour Hierarchies	TOBY OPFERKUCH
16:40	A pipeline for searching Stochastic Gravitational Wave by Pulsar Timing Residuals	SEYED MOHAMMAD SADEGH MOVAHED
16:50	Discussion	CONVENER: JESSICA STEINLECHNER

## Wednesday 16 October 2019

### Tuesday, 16 October 2019 - Adriatico Guest House - Kastler Lecture Hall (09:30-12:30)

time	title	presenter
09:30	High Frequency Gravitational Wave Detection with Bulk Acoustic Wave Devices: From Technology to First Data	MAXIM GORYACHEV
10:15	Parametric signal amplification for a high-frequency gravitational detector	KEN-ICHI HARADA
10:35	High frequency gravitational waves from axion clumps	SICHUN SUN
11:00	Coffee Break	
11:30	Discussion: How to move forward?	CONVENER: GIANCARLO CELLA & ANGELO RICCIARDONE