

CA17137 G2Net WG1 meeting

Report of Contributions

Contribution ID: 4

Type: **not specified**

Searching for the phase transition in the dense matter equation of state using anomaly detection technique

Tuesday 12 April 2022 10:00 (30 minutes)

Presenter: MORAWSKI, Filip

Contribution ID: 5

Type: **not specified**

Searches for Mass-Asymmetric Compact Binary Coalescence Events using Convolutional Neural Networks

Tuesday 12 April 2022 09:30 (30 minutes)

Presenter: ANDRÉS-CARCASONA, Marc

Contribution ID: 6

Type: **not specified**

Application of Gaussian Mixture Modelling to the Short All-sky Burst Gravitational Wave Search

Tuesday 12 April 2022 10:30 (30 minutes)

Presenter: SMITH, Leigh

Contribution ID: 7

Type: **not specified**

Simulating transient noise burst in LIGO with Generative Adversarial Networks

Monday 11 April 2022 12:20 (20 minutes)

Presenter: LOPEZ, Melissa

Contribution ID: 8

Type: **not specified**

Complex systems in the G2net research

Monday 11 April 2022 14:30 (20 minutes)

Presenter: ILIC, Velimir

Contribution ID: 9

Type: **not specified**

1D CNN Denoising AutoEncoder for BBH waveforms

Monday 11 April 2022 12:40 (20 minutes)

Presenter: BEJGER, Michal (INFN Ferrara & CAMK PAN)

Contribution ID: 10

Type: **not specified**

Validation of Speech Processing Techniques for Real-Time Detection of Gravitational Waves

Monday 11 April 2022 14:50 (30 minutes)

Presenter: DELL'AQUILA , Daniele

Contribution ID: 11

Type: **not specified**

Detection of GW Signals Using Quadratic Time-Frequency Distributions and Deep CNNs

Monday 11 April 2022 15:20 (30 minutes)

Presenter: LOPAC, Nicola

Contribution ID: 12

Type: **not specified**

What could ML do for finding gravitationally lensed GWs?

Wednesday 13 April 2022 10:30 (30 minutes)

Presenter: KEITEL, David

Contribution ID: 13

Type: **not specified**

Submission to the MLGWSC-1

Tuesday 12 April 2022 12:00 (30 minutes)

Presenter: ZELENKA, Ondřej

Contribution ID: 14

Type: **not specified**

CNN for early alert: Going down in frequency

Tuesday 12 April 2022 12:30 (30 minutes)

Presenter: BALTUS, Grégory

Contribution ID: 15

Type: **not specified**

Vitamin: Rapid Bayesian parameter estimation of CBC signals using conditional variational autoencoders

Tuesday 12 April 2022 14:30 (20 minutes)

Presenter: JOE, Bayley

Contribution ID: 16

Type: **not specified**

Core-collapse supernova detection and classification in real noise with CNN and LSTM

Tuesday 12 April 2022 14:50 (20 minutes)

Presenter: IESS, Alberto

Contribution ID: 17

Type: **not specified**

Deep Residual Error and Bag-of-Tricks Learning for Gravitational Wave Surrogate Modeling

Wednesday 13 April 2022 11:30 (20 minutes)

Presenter: FRAGKOULI, Stella

Contribution ID: 19

Type: **not specified**

Modelling compact binary waveforms using machine learning methods

Wednesday 13 April 2022 10:00 (30 minutes)

Presenter: MATEU-LUCENA, Maite

Contribution ID: 20

Type: **not specified**

Neural networks for gravitational wave trigger selection in single detector periods

Wednesday 13 April 2022 09:30 (30 minutes)

Presenter: TROVATO, Agata

Contribution ID: 21

Type: **not specified**

Searching for long-duration transient gravitational waves from glitching pulsars using Convolutional Neural Networks

Tuesday 12 April 2022 11:30 (30 minutes)

Presenter: MODAFFERI, Luana

Contribution ID: 23

Type: **not specified**

Open challenges in the application of DL to distributed mobile sensing

Tuesday 12 April 2022 15:10 (40 minutes)

Presenter: BONSIGNORIO, Fabio

Contribution ID: 24

Type: **not specified**

Intra-domain and cross-domain transfer learning for time series data—How transferable are the features?

Wednesday 13 April 2022 11:50 (20 minutes)

Presenter: ŠTAJDUHAR, Ivan