Aditya Vijaykumar

aditya.vijaykumar@icts.res.in • Website • International Centre for Theoretical Sciences, Bengaluru, India.

Papers (short authorlist)

11. Bikram Keshari Pradhan, Aditya Vijaykumar, Debarati Chatterjee

Impact of updated Multipole Love and f-Love Universal Relations in context of Binary Neutron Stars

Submitted to *Physical Review D*, arXiv:2210.09425.

10. Aditya Vijaykumar, Shasvath J. Kapadia, Parameswaran Ajith

Can a binary neutron star merger in the vicinity of a supermassive black hole enable a detection of a post-merger gravitational wave signal?

MNRAS, 513, 3577, arXiv:2202.08673.

9. Aditya Vijaykumar, Ajit Kumar Mehta, Apratim Ganguly

Detection and parameter estimation challenges of Type-II lensed binary black hole signals Submitted to Physical Review D, arXiv:2202.06334.

8. Sumit Kumar, Aditya Vijaykumar, Alexander H. Nitz

Detecting Baryon Acoustic Oscillations with third generation gravitational wave observatories, ApJ 930 113, arXiv:2110.06152.

7. M. Saleem et al. (including Aditya Vijaykumar)

The Science Case for LIGO-India

Class. Quantum Grav. 39 025004, arXiv:2105.01716.

6. Aditya Vijaykumar, M. V. S. Saketh, Sumit Kumar, Parameswaran Ajith, Tirthankar Roy Choudhury

Probing the large scale structure using gravitational wave observations of binary black holes, Submitted to Physical Review Letters, arXiv:2005.01111.

In press: Astrobites.

5. Aditya Vijaykumar, Shasvath J. Kapadia, Parameswaran Ajith

Constraints on the time variation of the gravitational constant using gravitational wave observations of binary neutron stars,

Phys. Rev. Lett. 126, 141104 (2021), arXiv:2003.12832.

In press: phys.org.

Papers (LONG AUTHORLIST, WITH SUBSTANTIAL CONTRIBU-TION)

4. Abbott et al. (LIGO Scientific and Virgo Collaborations)

Tests of General Relativity with GWTC-3,

Accepted to Physical Review D, arXiv:2112.06861.

3. Abbott et al. (LIGO Scientific and Virgo Collaborations)

Tests of General Relativity with Binary Black Holes from the second LIGO-Virgo Gravitational-Wave Transient Catalog,

Phys. Rev. D 103 (2021) 12, 122002, arXiv:2010.14529.

2. Abbott et al. (LIGO Scientific and Virgo Collaborations)

GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo During the First Half of the Third Observing Run,

Phys. Rev. X 11 (2021) 021053, arXiv:2010.14527.

1. P. Virtanen et al. (including Aditya Vijaykumar as SciPy 1.0 Contributor) SciPy 1.0-Fundamental Algorithms for Scientific Computing in Python, Nat Methods 17, 261–272 (2020), arXiv:1907.10121.