

Hongguang Liu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effective dynamics from coherent state path integral of full loop quantum gravity. Physical Review D, 2020, 101, .	4.7	32
2	Spinfoam on a Lefschetz thimble: Markov chain Monte Carlo computation of a Lorentzian spinfoam propagator. Physical Review D, 2021, 103, .	4.7	24
3	Asymptotic analysis of spin foam amplitude with timelike triangles. Physical Review D, 2019, 99, .	4.7	19
4	Improved $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mover accent="true"} \langle \text{mml:mi} \hat{1} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo stretchy="false"} \hat{\wedge} \langle \text{mml:mo} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:math} \rangle$ -scheme effective dynamics of full loop quantum gravity. Physical Review D, 2020, 102, .	4.7	18
5	Semiclassical limit of new path integral formulation from reduced phase space loop quantum gravity. Physical Review D, 2020, 102, .	4.7	15
6	Improved effective dynamics of loop-quantum-gravity black hole and Nariai limit. Classical and Quantum Gravity, 2022, 39, 035011.	4.0	14
7	Gravity as an SU (1, 1) gauge theory in four dimensions. Classical and Quantum Gravity, 2017, 34, 135008.	4.0	11
8	Unitarity and Information in Quantum Gravity: A Simple Example. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	11
9	Distinguishing f(R) theories from general relativity by gravitational lensing effect. European Physical Journal C, 2017, 77, 1.	3.9	9
10	Numerical computations of next-to-leading order corrections in spinfoam large- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ asymptotics. Physical Review D, 2020, 102, .	4.7	8
11	Manifestly gauge-invariant cosmological perturbation theory from full loop quantum gravity. Physical Review D, 2020, 102, .	4.7	7
12	Path integral renormalization in loop quantum cosmology. Physical Review D, 2021, 103, .	4.7	5
13	Analytic continuation of spinfoam models. Physical Review D, 2022, 105, .	4.7	5
14	Loop quantum gravity on dynamical lattice and improved cosmological effective dynamics with inflaton. Physical Review D, 2021, 104, .	4.7	4
15	Finiteness of spinfoam vertex amplitude with timelike polyhedra and the regularization of full amplitude. Physical Review D, 2022, 105, .	4.7	4