

List of Publications for the Competition

Hamed Pejhan

1. *A small non-vanishing cosmological constant from the Krein-Gupta-Bleuler vacuum*
Hamed Pejhan*,¹ Kazuharu Bamba, Mohammad Enayati, and Surena Rahbardehghan
Phys. Lett. B 785 (2018) 567-569 — **Q1** ([Scopus link](#))
DOI: [10.1016/j.physletb.2018.09.017](#) — **ISSN:** 03702693
2. *Massless spin-2 field in de Sitter space*
Hamed Pejhan*, Kazuharu Bamba, Surena Rahbardehghan, and Mohammad Enayati
Phys. Rev. D 98 (2018) no.4, 045007 — **Q1** ([Scopus link](#))
DOI: [10.1103/PhysRevD.98.045007](#) — **ISSN:** 24700010
3. *Vacuum states for gravitons field in de Sitter space*
Kazuharu Bamba, Surena Rahbardehghan, and Hamed Pejhan*
Phys. Rev. D 96 (2017) no.10, 106009 — **Q1** ([Scopus link](#))
DOI: [10.1103/PhysRevD.96.106009](#) — **ISSN:** 24700010
4. *Covariant and infrared-free graviton two-point function in de Sitter spacetime II*
Hamed Pejhan* and Surena Rahbardehghan
Phys. Rev. D 94 (2016) no.10, 104030 — **Q1** ([Scopus link](#))
DOI: [10.1103/PhysRevD.94.104030](#) — **ISSN:** 24700010
5. *Casimir energy-momentum tensor for a quantized bulk scalar field in the geometry of two curved branes on Friedmann-Robertson-Walker background*
Hamed Pejhan* and Surena Rahbardehghan
Phys. Rev. D 94 (2016) no.6, 064034 — **Q1** ([Scopus link](#))
DOI: [10.1103/PhysRevD.94.064034](#) — **ISSN:** 24700010
6. *Covariant and infrared-free graviton two-point function in de Sitter spacetime*
Hamed Pejhan* and Surena Rahbardehghan
Phys. Rev. D 93 (2016) no.4, 044016 — **Q1** ([Scopus link](#))
DOI: [10.1103/PhysRevD.93.044016](#) — **ISSN:** 24700010
7. *Examining a covariant and renormalizable quantum field theory in de Sitter space by studying “black hole radiation”*
Hamed Pejhan* and Surena Rahbardehghan
Int. J. Mod. Phys. A 31 (2016) 1650052 — **Q2** ([Scopus link](#))
DOI: [10.1142/S0217751X16500524](#) — **ISSN:** 0217751X
8. *Krein-Gupta-Bleuler quantization in de Sitter spacetime; Casimir energy-momentum tensor for a curved brane*
Surena Rahbardehghan and Hamed Pejhan*
Phys. Lett. B 750 (2015) 627-632 — **Q1** ([Scopus link](#))
DOI: [10.1016/j.physletb.2015.09.066](#) — **ISSN:** 03702693

¹ * = corresponding author

9. *Auxiliary “massless” spin-2 field in de Sitter universe*

Hamed Pejhan, Mohammad Reza Tanhayi*, and Mohammad Vahid Takook

Int. J. Theor. Phys. 49 (2010) 2263-2277 — **Q1** ([Scopus link](#))

DOI: [10.1007/s10773-010-0413-3](#) — **ISSN:** 15729575

Papers Derived from My PhD Thesis

10. *A group theoretical approach to graviton two-point function*

Surena Rahbardehghan, Hamed Pejhan*, and Marjan Elmizadeh

Eur. Phys. J. C 75 (2015) no.3, 119 — **Q1** ([Scopus link](#))

DOI: [10.1140/epjc/s10052-015-3339-3](#) — **ISSN:** 14346044

11. *Casimir effect for a scalar field via Krein quantization*

Hamed Pejhan*, Mohammad Reza Tanhayi, and Mohammad Vahid Takook

Annals Phys. 341 (2014) 195-204 — **Q2** ([Scopus link](#))

DOI: [10.1016/j.aop.2013.12.007](#) — **ISSN:** 1096035X

12. *Conformal linear gravity in de Sitter space II*

Mohammad Vahid Takook, Hamed Pejhan, and Mohammad Reza Tanhayi*

Eur. Phys. J. C 72 (2012) 2052 — **Q1** ([Scopus link](#))

DOI: [10.1140/epjc/s10052-012-2052-8](#) — **ISSN:** 14346044