

# List of publications

JÉRÉMIE JOUDIoux

## PREPRINTS

- [Jou19] J. Joudioux. “Hörmander’s method for the characteristic Cauchy problem and conformal scattering for a non linear wave equation”. In: *arXiv e-prints*, arXiv:1903.12591 (2019), arXiv:1903.12591. arXiv: [1903.12591 \[math.AP\]](#).
- [JTV19] J. Joudioux, M. Thaller, and J. A. Valiente Kroon. “The Conformal Einstein Field Equations with Massless Vlasov Matter”. In: *arXiv e-prints*, arXiv:1903.12251 (2019), arXiv:1903.12251. arXiv: [1903.12251 \[gr-qc\]](#).
- [OPJA19] M. A. Oancea, C. F. Paganini, J. Joudioux, and L. Andersson. “An overview of the gravitational spin Hall effect”. In: *arXiv e-prints*, arXiv:1904.09963 (2019), arXiv:1904.09963. arXiv: [1904.09963 \[gr-qc\]](#).
- [FJS17b] D. Fajman, J. Joudioux, and J. Smulevici. “Sharp asymptotics for small data solutions of the Vlasov-Nordström system in three dimensions”. In: *ArXiv e-prints* (Apr. 2017). 74p. arXiv: [1704.05353 \[math.AP\]](#).
- [FJS17c] D. Fajman, J. Joudioux, and J. Smulevici. “The Stability of the Minkowski space for the Einstein-Vlasov system”. In: *ArXiv e-prints* (July 2017). 139p. arXiv: [1707.06141 \[gr-qc\]](#).

## ACCEPTED FOR PUBLICATION IN PEER-REVIEWED JOURNALS

- [ABJ18] L. Andersson, P. Blue, and J. Joudioux. “Hidden symmetries and decay for the Vlasov equation on the Kerr spacetime”. In: *Comm. Partial Differential Equations* 43.1 (2018), pp. 47–65. DOI: [10.1080/03605302.2017.1422517](#).
- [EFJ18] P. Eigenschink, D. Fajman, and J. Joudioux. “The massive and massless Einstein-Vlasov system with spherical symmetry”. In: *Phys. Rev. D* 98 (4 2018), p. 044002. DOI: [10.1103/PhysRevD.98.044002](#).
- [FJS17a] D. Fajman, J. Joudioux, and J. Smulevici. “A vector field method for relativistic transport equations with applications”. In: *Anal. PDE* 10.7 (2017), pp. 1539–1612. DOI: [10.2140/apde.2017.10.1539](#).
- [Jou17] J. Joudioux. “Gluing for the constraints for higher spin fields”. In: *Journal of Mathematical Physics* 58.11 (2017), p. 111513. DOI: [10.1063/1.5001004](#).
- [ABJ14] L. Andersson, T. Bäckdahl, and J. Joudioux. “Hertz potentials and asymptotic properties of massless fields”. In: *Comm. Math. Phys.* 331.2 (2014), pp. 755–803. DOI: [10.1007/s00220-014-2078-x](#).
- [Jou12] J. Joudioux. “Conformal scattering for a nonlinear wave equation”. In: *J. Hyperbolic Differ. Equ.* 9.1 (2012), pp. 1–65. DOI: [10.1142/S0219891612500014](#).
- [Jou11] J. Joudioux. “Integral formula for the characteristic Cauchy problem on a curved background”. In: *J. Math. Pures Appl. (9)* 95.2 (2011), pp. 151–193. DOI: [10.1016/j.matpur.2010.10.002](#).

## THÈSE DE DOCTORAT

- [Jou10] J. Joudioux. “Characteristic Cauchy problem and conformal scattering in general relativity”. [TEL - HAL](#). Thèse de doctorat ès sciences, spécialité Mathématiques. Université de Bretagne occidentale - Brest, 2010.