

Publications of Y.Morimoto

1. Uniqueness of solutions for the non-cutoff Boltzmann Equation with soft potential, Preprint, (with Radjesvarane Alexandre, Seiji Ukai, Chao-Jiang Xu and Tong Yang)
2. Smoothing effect of weak solutions for the spatially homogeneous Boltzmann Equation without angular cutoff, Preprint: <http://hal.archives-ouvertes.fr/hal-00589563/fr/> (with Radjesvarane Alexandre, Seiji Ukai, Chao-Jiang Xu and Tong Yang)
3. Hypocoelliptic estimates for a linear model of the Boltzmann equation without angular cutoff, Preprint: <http://arxiv.org/abs/1012.4915> (with Nicolas Lerner and Karel Pravda-Starov)
4. The Boltzmann equation without angular cutoff in the whole space: III, Qualitative properties of solutions, to appear in *Arch. Rational Mech. Anal.*, <http://hal.archives-ouvertes.fr/hal-00510633/fr/>. (with Radjesvarane Alexandre, Seiji Ukai, Chao-Jiang Xu and Tong Yang)
5. The Boltzmann equation without angular cutoff in the whole space: II, global existence for hard potential, *Analysis and Applications*, **9-2** (2011), 113-134. (with Radjesvarane Alexandre, Seiji Ukai, Chao-Jiang Xu and Tong Yang)
6. The Boltzmann equation without angular cutoff in the whole space: I, Global existence for soft potential, to appear in *J. Funct. Anal.*, <http://hal.archives-ouvertes.fr/hal-00496950/fr/> (with Radjesvarane Alexandre, Seiji Ukai, Chao-Jiang Xu and Tong Yang)
7. Bounded solutions of the Boltzmann equation in the whole space, *Kinetic and Related Models.*, **4** (2011) 17-40, (with Radjesvarane Alexandre, Seiji Ukai, Chao-Jiang Xu and Tong Yang)
8. Global existence and full regularity of the Boltzmann equation without angular cutoff, *Comm. Math. Phys.*, published online 26 April 2011, DOI:10.1007/s00220-011-1242-9 (with Radjesvarane Alexandre, Seiji Ukai, Chao-Jiang Xu and Tong Yang)
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11. Gevrey smoothing effect of solutions for spatially homogeneous nonlinear Boltzmann equation without angular cutoff, *J. Pseudo-Differ. Oper. Appl.* **1** (2010), 139-159. (with Seiji Ukai)
12. Instability of the Cauchy-Kovalevskaya solution for a class of non-linear systems *American Journal Mathematics*, **132(1)**(2010) 99-123, (with Nicolas Lerner and Chao-Jiang Xu)
13. Regularity of solutions for the Boltzmann equation without angular cutoff. *C. R. Math. Acad. Sci. Paris, Ser. I*, **347** (2009), no. 13-14, 747–752. (with Radjesvarane Alexandre, Seiji Ukai, Chao-Jiang Xu and Tong Yang)
14. Local existence for non-cutoff Boltzmann equation, *C. R. Math. Acad. Sci. Paris, Ser. I*, **347** (2009), no. 21-22, 1237–1242. (with Radjesvarane Alexandre, Seiji Ukai, Chao-Jiang Xu and Tong Yang)
15. Ultra-analytic effect of Cauchy problem for a class of kinetic equations, *J. Differential Equations*, **247**(2009) 596-617, (with Chao-Jiang Xu)
16. Regularity of solutions to the spatially homogeneous Boltzmann equation without angular cutoff, *Discrete and Continuous Dynamical Systems - Series A*, **24**(2009), 187-212, (with Seiji Ukai, Chao-Jiang Xu and Tong Yang)
17. Uncertainty principle and kinetic equations, *J. Funct. Anal.*, **255** (2008) 2013-2066, (with Radjesvarane Alexandre, Seiji Ukai, Chao-Jiang Xu and Tong Yang)
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