LIST OF SELECTED (PRE)PUBLICATIONS

Accepted for Publication.

[1] Étienne Ghys and Christopher-Lloyd Simon. "On the topology of a real analytic curve in the neighborhood of a singular point". In: *Astérisque* Some aspects of the theory of dynamical systems: a tribute to Jean-Christophe Yoccoz. Vol. I.415 (2020). HAL version, pp. 1–33. ISSN: 0303-1179,2492-5926. DOI: 10.24033/ast. URL: https://doi.org/10.24033/ast.

[2] Julien Marché and Christopher-Lloyd Simon. "Automorphisms of character varieties". In: *Ann. H. Lebesgue* 4 (2021). arXiv version, pp. 591–603. ISSN: 2644-9463. DOI: 10.5802/ahl.82. URL: https://doi.org/10.5802/ahl.82.

[3] Julien Marché and Christopher-Lloyd Simon. "Valuations on the character variety: Newton polytopes and residual Poisson bracket". In: *Geom. Topol.* 28.2 (2024). arXiv version, pp. 593–625. ISSN: 1465-3060,1364-0380. DOI: 10.2140/gt.2024.28.593. URL: https://doi.org/10.2140/gt.2024.28.593.

[4] Christopher-Lloyd Simon. "Arithmetic and Topology of Modular knots". HAL version. Thèse. Université de Lille, June 2022. URL: https://tel.archives-ouvertes.fr/tel-03755147.

[5] Christopher-Lloyd Simon. "Conjugacy classes in $PSL_2(\mathbb{K})$". en. In: *Mathematics Research Reports* 4 (2023). arXiv version, pp. 23–45. DOI: 10.5802/mrr.16. URL: https://mrr.centre-mersenne.org/articles/10.5802/mrr.16/.

[6] Christopher-Lloyd Simon. *Linking numbers of modular knots*. To appear in Geometry and Topology for publication, arXiv version. 2024.

[7] Christopher-Lloyd Simon. "Topologie et dénombrement des courbes algébriques réelles". In: *Ann. Fac. Sci. Toulouse Math. (6)* 31.2 (2022). arXiv version, pp. 383–422. ISSN: 0240-2963,2258-7519. DOI: 10.5802/afst.1698. URL: https://doi.org/10.5802/afst.1698.

Submitted and in Revision.

[8] Pierre Aboulker et al. *Computing the degreewidth of a digraph is hard*. submitted for publication, arXiv version. 2024. arXiv: 2407.19270 [math.CO]. URL: https://arxiv.org/abs/2407.19270.

[9] Scott Schmieding and Christopher-Lloyd Simon. *Geometry and Transcendence of the Hexponential*. submitted for publication, arXiv version. 2024. arXiv: 2402.17628 [math.NT]. URL: https://arxiv.org/abs/2402.17628.

[10] Christopher-Lloyd Simon. *Loops in surfaces, chord diagrams, interlace graphs: operad factorisations and generating grammars*. submitted for publication, arXiv version. 2023.

[11] Christopher-Lloyd Simon and Ben Stucky. *Pin the loop taut: a one-player topologame*. submitted for publication, arXiv version. 2024. arXiv: 2405.16216 [math.GT]. URL: https://arxiv.org/abs/2405.16216.

In Preparation.

[12] Scott Schmieding and Christopher-Lloyd Simon. *Isogenies of low complexity systems: Sturmian, Denjoy, and interval exchange systems*. In preparation. 2024.