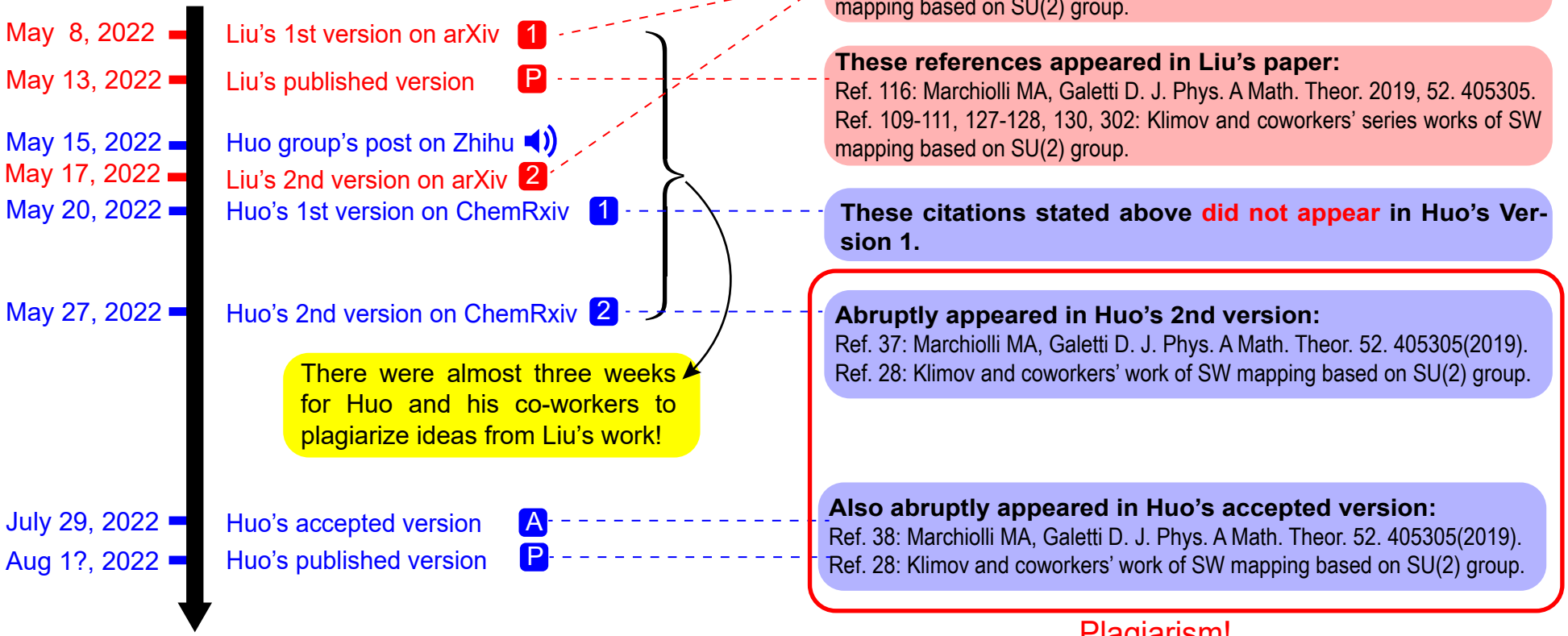
Timeline of Events



These references appeared in Liu's paper:
Ref. 116: Marchiolli MA, Galetti D. J. Phys. A Math. Theor. 2019, 52. 405305.
Ref. 109-111, 127-128, 130, 132: Klimov and coworkers' series works of SW mapping based on SU(2) group.

These references appeared in Liu's paper:
Ref. 116: Marchiolli MA, Galetti D. J. Phys. A Math. Theor. 2019, 52. 405305.
Ref. 109-111, 127-128, 130, 302: Klimov and coworkers' series works of SW mapping based on SU(2) group.

These citations stated above did not appear in Huo's Version 1.

Abruptly appeared in Huo's 2nd version:
Ref. 37: Marchiolli MA, Galetti D. J. Phys. A Math. Theor. 52. 405305(2019).
Ref. 28: Klimov and coworkers' work of SW mapping based on SU(2) group.

Also abruptly appeared in Huo's accepted version:
Ref. 38: Marchiolli MA, Galetti D. J. Phys. A Math. Theor. 52. 405305(2019).
Ref. 28: Klimov and coworkers' work of SW mapping based on SU(2) group.

Plagiarism!

1 https://arxiv.org/abs/2205.03870v1
P https://doi.org/10.1002/wcms.1619
2 https://arxiv.org/abs/2205.03870v2
https://www.zhihu.com/people/liu-xing-yu-72-53/pins
1 https://chemrxiv.org/engage/chemrxiv/article-details/6286c9ba59f0d6831996a480
2 https://chemrxiv.org/engage/chemrxiv/article-details/6290092c1df2edd1ac59ea52
A https://aip.scitation.org/doi/10.1063/5.0094893
P https://aip.scitation.org/doi/10.1063/5.0094893

Evidence 8: PLAGIARISM

Evidence #8:

There were several literatures cited only in the Version 2 (first released online to ChemRxiv on **May 27, 2022**) and Version 3(accepted online on **July 29, 2022**), but **not in their Version 1** (first released online to ChemRxiv on May 20, 2022)**.** Especially, one reference, Ref. 37[M. A. Marchiolli and D. Galetti, *J. Phys. A: Math. Theor.* 52, 405305 (2019)], had been cited in *Wiley Interdiscip. Rev. Comput. Mol. Sci.* e1619 (2022) [submitted on **February 5, 2022**, released on **arXiv on May 8**, 2022 and officially published on **May 13, 2022**], before their updated **Version 2** on **May 27, 2022**. The authors obviously had read this important citation from our *Wiley Interdiscip. Rev. Comput. Mol. Sci.* e1619 (2022) and used it in Version 2 and Version 3.

"

044119 (2019).
[35]D. Bossion, S. N. Chowdhury, and P. Huo, J. Chem. Phys. **154**, 184106 (2021).
[36]F. T. Hioe and J. H. Eberly, Phys. Rev. Lett. **47**, 838 (1981).
[37]M. A. Marchiolli and D. Galetti, J. Phys. A: Math. Theor. **52**, 405305 (2019).
[38]C. W. McCurdy, H. D. Meyer, and W. H. Miller, J. Chem. Phys. **70**, 3177 (1979).
[39]H. Meyer and W. H. Miller, J. Chem. Phys. **72**, 2272 (1980).
[40]See Appendix C of Ref. 43 for a detailed discussion.
[41]S. J. Cotton and W. H. Miller, J. Phys. Chem. A **119**, 12138 (2015).

"

Version 3(accepted online on July 29, 2022):

"

[36]D. Bossion, S. N. Chowdhury, and P. Huo, J. Chem. Phys. **154**, 184106 (2021).
[37]F. T. Hioe and J. H. Eberly, Phys. Rev. Lett. **47**, 838 (1981).
[38]M. A. Marchiolli and D. Galetti, J. Phys. A: Math. Theor. **52**, 405305 (2019).
[39]G. Kimura, Phys. Lett. A (2003) **314**, 339 (2003).
[40]R. A. Bertlmann and P. Krammer, J. Phys. A: Math. Theor. **41**, 235303 (2008).
[41]C. W. McCurdy, H. D. Meyer, and W. H. Miller, J. Chem. Phys. **70**, 3177 (1979).

"

Wiley Interdiscip. Rev. Comput. Mol. Sci. e1619 (2022):

"

10.1088/1751-8113/45/1/015302
115. Tilma T, Everitt MJ, Samson JH, Munro WJ, Nemoto K. Wigner functions for arbitrary quantum systems. Phys Rev Lett. 2016;117:180401. https://doi.org/10.1103/physrevlett.117.180401
116. Marchiolli MA, Galetti D. On the discrete Wigner function for SU(N). J Phys A Math Theor. 2019;52:405305. https://doi.org/10.1088/1751-8121/ab3bab
117. Rundle RP, Tilma T, Samson JH, Dwyer VM, Bishop RF, Everitt MJ. General approach to quantum mechanics as a statistical theory. Phys Rev A. 2019;99:012115. https://doi.org/10.1103/physreva.99.012115
118. Cohendet O, Combe P, Sirugue M, Sirugue-Collin M. A stochastic treatment of the dynamics of an integer spin. J Phys A Math Gen. 1988;21:2875–83. https://doi.org/10.1088/0305-4470/21/13/012
119. Leonhardt U. Quantum-state tomography and discrete Wigner function. Phys Rev Lett. 1995;74:4101–5. https://doi.org/10.1103/PhysRevLett.74.4101

"

In addition, Ref. 28[A. B. Klimov and S. M. Chumakov, A Group-Theoretical Approach to Quantum Optics: Models of Atom-Field Interactions (John Wiley & Sons, 2009).] of Version 2-3 was not cited in Version 1:

“

[26] Y. Gu, Phys. Rev. A **32**, 1310 (1985).
[27] C. Brif and A. Mann, Phys. Rev. A **59**, 971 (1999).
[28] A. B. Klimov and S. M. Chumakov, *A Group-Theoretical Approach to Quantum Optics: Models of Atom-Field Interactions* (John Wiley & Sons, 2009).
[29] B. C. Hall, *GTM222: Lie Groups, Lie Algebras, and Representations, An Elementary Introduction, 2^{nd} Ed.* (Springer, Switzerland, 2015).
[30] See Page 71 corollary 3.47 of Ref. 29.

[26] Y. Gu, Phys. Rev. A **32**, 1310 (1985).
[27] C. Brif and A. Mann, Phys. Rev. A **59**, 971 (1999).
[28] A. B. Klimov and S. M. Chumakov, *A Group-Theoretical Approach to Quantum Optics: Models of Atom-Field Interactions* (John Wiley & Sons, 2009).
[29] B. C. Hall, *GTM222: Lie Groups, Lie Algebras, and Representations, An Elementary Introduction, 2^{nd} Ed.* (Springer, Switzerland, 2015).

”

while at least 7 articles by Klimov and his coworkers were cited by *Wiley Interdiscip. Rev. Comput. Mol. Sci.* e1619 (2022) [submitted on **February 5, 2022**, released on **arXiv on May 8**, 2022 and officially published on **May 13, 2022**]. In comparison, none of Klimov's work had been cited by Huo and coworkers in Version 1:

“

109. Klimov AB, Espinoza P. Moyal-like form of the star product for generalized SU(2) Stratonovich-Weyl symbols. J Phys A Math Gen. 2002;35:8435–47. https://doi.org/10.1088/0305-4470/35/40/305

110. Klimov AB, Romero JL. A generalized Wigner function for quantum systems with the SU(2) dynamical symmetry group. J Phys A Math Theor. 2008;41:055303. https://doi.org/10.1088/1751-8113/41/5/055303
111. Klimov AB, Romero JL, de Guise H. Generalized SU(2) covariant Wigner functions and some of their applications. J Phys A Math Theor. 2017;50:323001. https://doi.org/10.1088/1751-8121/50/32/323001

127. Valtierra IF, Romero JL, Klimov AB. TWA versus semiclassical unitary approximation for spin-like systems. Ann Phys. 2017;383:620–34. https://doi.org/10.1016/j.aop.2017.06.006
128. Valtierra IF, Klimov AB, Leuchs G, Sánchez-Soto LL. Quasiprobability currents on the sphere. Phys Rev A. 2020;101:033803. https://doi.org/10.1103/PhysRevA.101.033803

130. Morales-Hernández GE, Castellanos JC, Romero JL, Klimov AB. Semi-classical discretization and long-time evolution of variable spin systems. Entropy. 2021;23:684. https://doi.org/10.3390/e23060684

302. Klimov AB. Exact evolution equations for SU(2) quasidistribution functions. J Math Phys. 2002;43:2202–13. https://doi.org/10.1063/1.1463711

”