

Erratum: Contextuality and noncontextuality measures and generalized Bell inequalities for cyclic systems [Phys. Rev. A 101, 042119 (2020)]

Ehtibar N. Dzhafarov,^{1,*} Janne V. Kujala,^{2,†} and Víctor H. Cervantes^{3,‡}

¹*Purdue University, USA*

²*University of Turku, Finland*

³*University of Illinois at Urbana-Champaign, USA*

The measures CNT_2 and NCNT_2 are defined in the paper as the L_1 -distance between a point representing a system of dichotomous random variables and the surface of the noncontextuality polytope. The values of the dichotomous variables can be chosen arbitrarily: switching from the $\{0, 1\}$ values to $\{a, b\}$ amounts to multiplying all values of CNT_2 and NCNT_2 by $(a - b)^2$. In our paper, CNT_2 and NCNT_2 were defined for $\{0, 1\}$ variables, but when it was more convenient, we also used the $\{-1, +1\}$ labeling, so that the L_1 -distance in question was 4 times the value of CNT_2 or NCNT_2 . By an oversight, in Sections VIII and IX where the $\{-1, +1\}$ labeling was used, the coefficient 4 was omitted. So every occurrence of CNT_2 and NCNT_2 in these sections should be multiplied by 4 to be consistent with their definition in earlier sections. This applies only to the text of these sections; the numerical values in Figures 14 and 15 are shown for the $\{0, 1\}$ labeling as they should.

* Corresponding author: ehtibar@purdue.edu

† jvk@iki.fi

‡ victorhc@illinois.edu