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Experimental evidence of quantum randomness incomputability

Cristian S. Calude, Michael J. Dinneen, Monica Dumitrescu, and Karl Svozil
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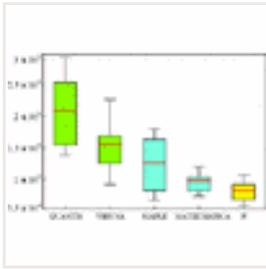
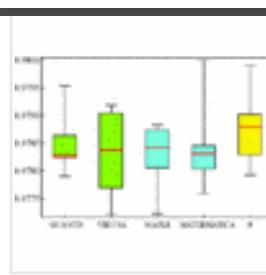
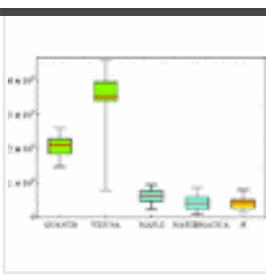
ABSTRACT

In contrast with software-generated randomness (called pseudo-randomness), quantum randomness can be proven incomputable; that is, it is not exactly reproducible by any algorithm. We provide experimental evidence of incomputability—an asymptotic property—of quantum randomness by performing finite tests of randomness inspired by algorithmic information theory.



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AUTHORS & AFFILIATIONS

Cristian S. Calude* and Michael J. Dinneen†

Department of Computer Science, University of Auckland, Private Bag 92019,
Auckland, New Zealand

Monica Dumitrescu‡

Faculty of Mathematics and Computer Science, University of Bucharest, Str.
Academiei 14, RO-010014 Bucharest, Romania

Karl Svozil§

Institute for Theoretical Physics, Vienna University of Technology, Wiedner
Hauptstrasse 8-10/136, A-1040 Vienna, Austria

* cristian@cs.auckland.ac.nz; <http://www.cs.auckland.ac.nz/~cristian>

† mjd@cs.auckland.ac.nz; <http://www.cs.auckland.ac.nz/~mjd>

‡ mdumi@fmi.unibuc.ro; http://fmi.unibuc.ro/ro/dumitrescu_monica

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