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Research Paper

Collatz Conjecture proof using Zaman Giant Equation

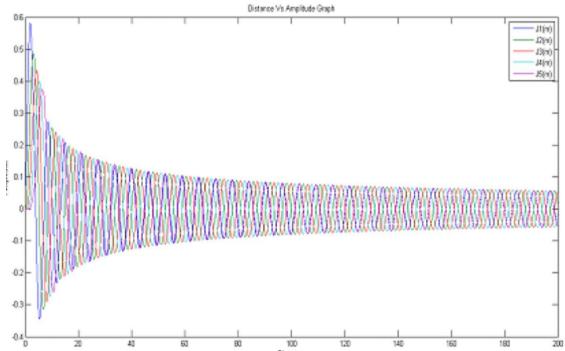
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Preface:

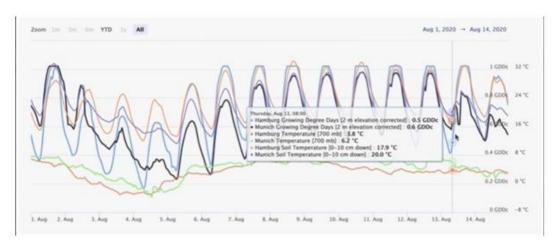
This is the third paper I am writing about collatz conjecture. It hought the proof from different angle of math. To prove the "3x+1" system I have proved a new theory in previous research paper nae "Zaman Giant Equation". So I will suggest the author to read my previous paper named "Zaman Giant equation". The complex recognizable function: "Z(C)=

This is the same function which can be derived by euler-identity. We have another functional graph

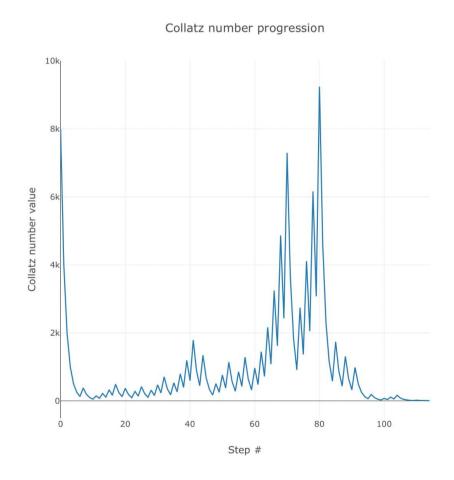


Source: https://www.researchgate.net/figure/Plots-of- Bessel-Functions-of-the-first-kind-at-0-f-m-80 fig4 303248762

This is the most I will say again most be autiful graph exists in nature. Angour zaman giant equation graph



Which is the infinitively iterative graph. And the collatz conjecture graph



Graph of collatz conjecture

Can you see some equality between the graph of collatz conjecture and zaman giant equation graph. Yest it seems that it is a bad weather graph and if you zoom the zaman giant equation you will see that both have a property of increasing and decreasing functionality.

If we want to find the similarity between bessel graph, zaman graphandcollatz graph we will see that collatz conzecture is the subset of zaman graph, zaman graphis the subset of Bessel graph in previous paper which I called the "The ultimate proof of collatz conjecture using simple number theory. Which was so easy to prove that if we have a set of only odd numbers collatz conjecture proof exist for all natural number. And remember odd number is the subset of Natural number. Then if you deny that collatz conjecture then you have to deny the zaman function which is based on Bessel and euler identity. If you deny this then math is over. So I think Collatz Conjecture is proved for all types of function. Here is the source code if you want to check the graphs are correct

Source Code:

export LANG=C export SERVER NAME=pcbarina.fit.vutbr.cz echo "hostname=\$(hostname)"echo "pwd=\$(pwd)"echo "HOME=\$HOME"echo "cpu model name=\$(cat /proc/cpuinfo | grep "model name" | head n1)"echo "cpus=\$(cat /proc/cpuinfo | grep processor | wc -1)"echo "TMPDIR=\$TMPDIR" set -uset -e # check the connectionif! ping -c1 -q "\${SERVER_NAME}"; then echo "No connection!" exitfi umask 077 CC=gccif type clang > /dev/null 2> /dev/null && clang --version | grep -qE "version (8|9|10|11|12|13)"; then echo "INFO: clang available" CC=clangfi # don't forget git clone git@github.com:xbarin02/collatz.git into \$HOMESRCDIR=\$HOME/collatz/MAPDIR=\$HOME/collatz-sieve/TMP=\$(mktemp -d collatz.XXXXXXXX --tmpdir) echo "SRCDIR=\$SRCDIR"echo "TMP=\$TMP" if ! test -d "\$SRCDIR"; then pushd "\$HOME" git clone git@github.com:xbarin02/collatz.git popdelse pushd "\$SRCDIR" git pull || echo "cannot sync repo" popdfi if! test -d "\$MAPDIR"; then pushd "\$HOME" git clone git@github.com:xbarin02/collatz-sieve.git popdelse pushd "\$MAPDIR" git pull || echo "cannot sync repo" popdfi mkdir -p -- "\$TMP"pushd -- "\$TMP" cp -r "\${SRCDIR}" . cd collatz/src HOSTNAME=\$(hostname -s | tr '[:upper:]' '[:lower:]') TASK_UNITS=16if [["\$HOSTNAME" =~ ^pco204-..\$]]; then TASK_UNITS=20fi # build mclient & workermake -C worker clean all USE_LIBGMP=1 CC=\$CC USE_SIEVE=1 USE_PRECALC=1 SIEVE_LOGSIZE=34 USE_SIEVE3=0 USE SIEVE9=1

USE_LUT50=1make -C gpuworker clean all CC=\$CC TASK_UNITS=\${TASK_UNITS} SIEVE_LOGSIZE=24 USE_SIEVE3=1 || echo "unable to build gpuworker"make -C mclient clean all pushd "\$MAPDIR"./unpack.sh esieve-34.lut50 "\$TMP"/collatz/src/worker./unpack.sh esieve-24 "\$TMP"/collatz/src/gpuworkerpopd cd mclient CLEANUP DIR=\$TMP screen -d -m ./spawn.sh \$* popd

source code for python

```
def collatz(n):
    while n > 1:
        print(n, end=' ')
        if (n % 2):
            # n is odd
            n = 3*n + 1
        else:
            # n is even
            n = n//2
        print(1, end="')

n = int(input('Enter n: '))
    print('Sequence: ', end='')
collatz(n)
```

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If you can run all these programs you will see the relation between the collatz conjecture function and the fundament law of nature in physics "Everything wants to come inequilibrium"