Will we find another Mersenne prime?

Undergraduate Math Club
CORNELL UNIVERSITY

M_n	Status	Details
82589933	Prime	

LL	Status	Date	User	Residue	Shift
	Verified	2018-12-07	punkboy15	0000000000000000	1122232

History

Date	User	Type	Result
2018-12-07	punkboy15	P-LL	M82589933 is prime!
2017-08-12	La Güira	NF-PM1	B1=730000, B2=14417500
2016-12-18	Mark Rose	NF	no factor from 2^74 to 2^75
2016-12-16	RichD0	NF	no factor from 2^73 to 2^74
2016-11-17	Judge Hale	NF	no factor from 2^72 to 2^73
2016-11-17	Judge Hale	NF	no factor from 2^71 to 2^72
2011-03-26	steinrar	NF	no factor from 2^70 to 2^71
2011-03-26	steinrar	NF	no factor from 2^69 to 2^70
2011-03-26	steinrar	NF	no factor from 2^68 to 2^69
2011-03-26	steinrar	NF	no factor from 2^67 to 2^68
2011-03-26	steinrar	NF	no factor from 2^65 to 2^67
2010-12-15	Architects Cubed	NF	no factor from 2^64 to 2^65

SPEAKER

Jessie Tan

ABSTRACT

Mersenne primes are primes that are one less than a power of two. They are very useful for forming even perfect numbers, but very useless for RSA encryption. Besides Euler's enhanced trial factoring and the Lucas-Lehmer test, we haven't made much progress at understanding them. Millions of CPUs are currently searching of those primes brute-force, but no one knows if we will find another.

FEB 17 at 5:15pm

Malott 532 ⋆ Refreshments