A Simply Conclusion

The ABC´s of Number Theory

by Prof. Noam D. Elkies

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Proving that the conjecture is false would require the existence of an infinite family of (A, B, C)´s whose ABC exponents approach a limit greater than 1, just as we had to construct an infinite family such as $(1, 2^r – 1, 2^r)$…

Conclusion:

A	1
B	$(2^r – 2) * 2^r$
C	$(2^r – 1)^2$

Number-Examples:

2^2	A		1		
	B		8	$(2^2 – 2)*2^2$	(2*4)
	C	3^2	9		
2^3	A		1		
	B		48	$(2^3 – 2)*2^3$	(6*8)
	C	7^2	49		

2^4	A		1		
	B		224	$(2^4 - 2)*2^4$	(14*16)
	C	15^2	225		

. . .

rad C * C – 1 (maximum) * 1 < C^2

= rad(ABC) < C infinite.

by

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