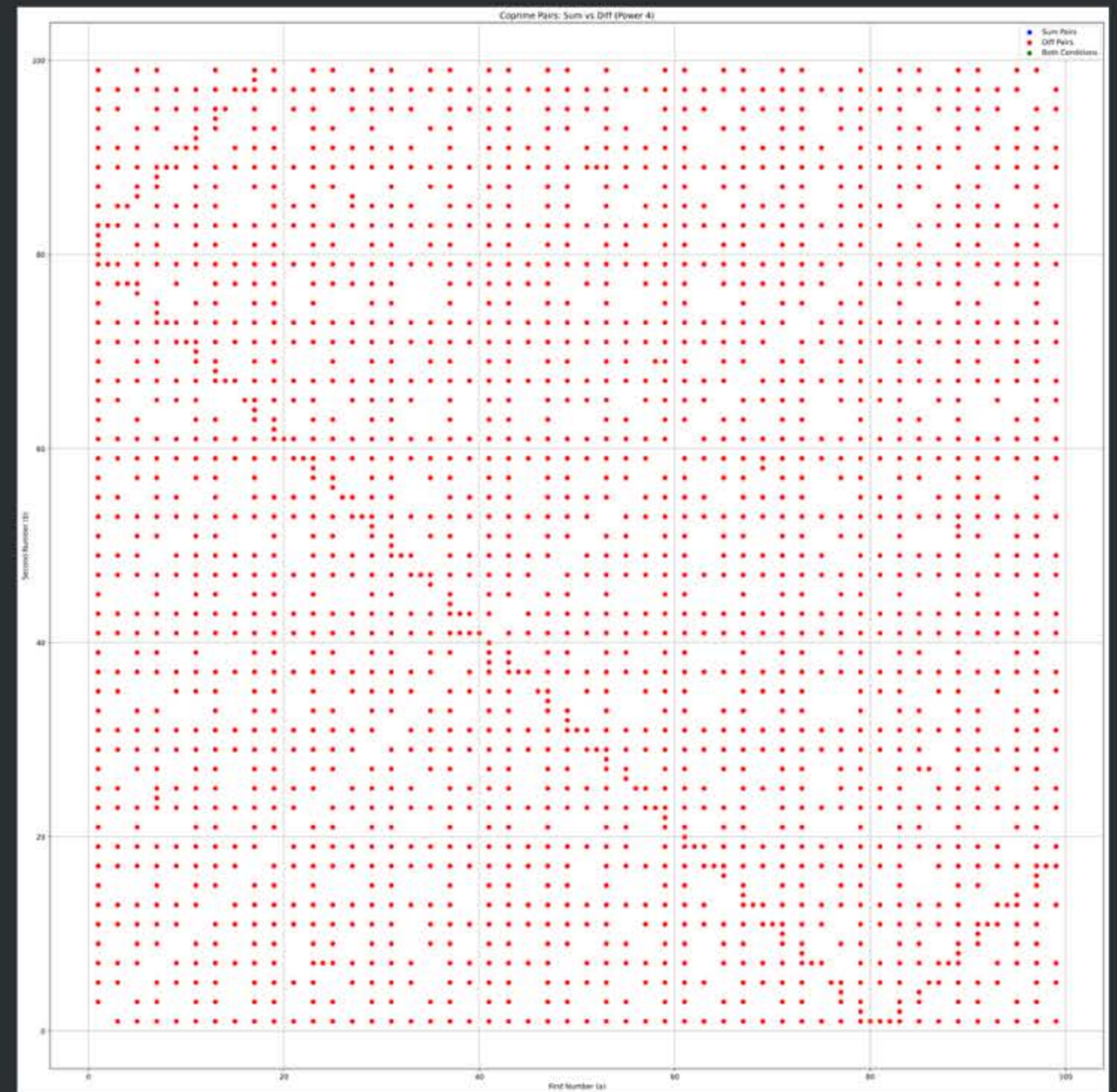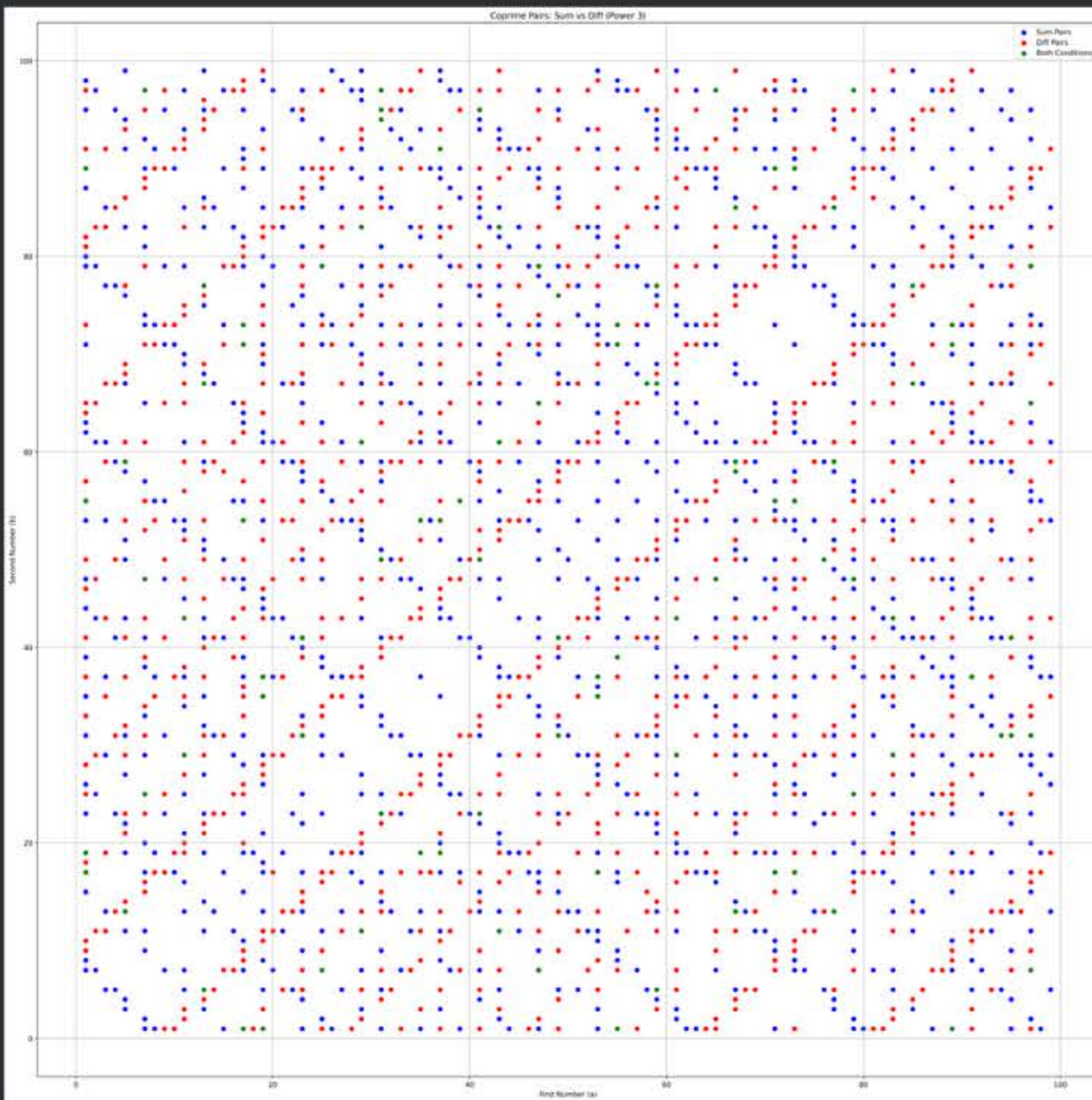Is it true that there are no solutions to
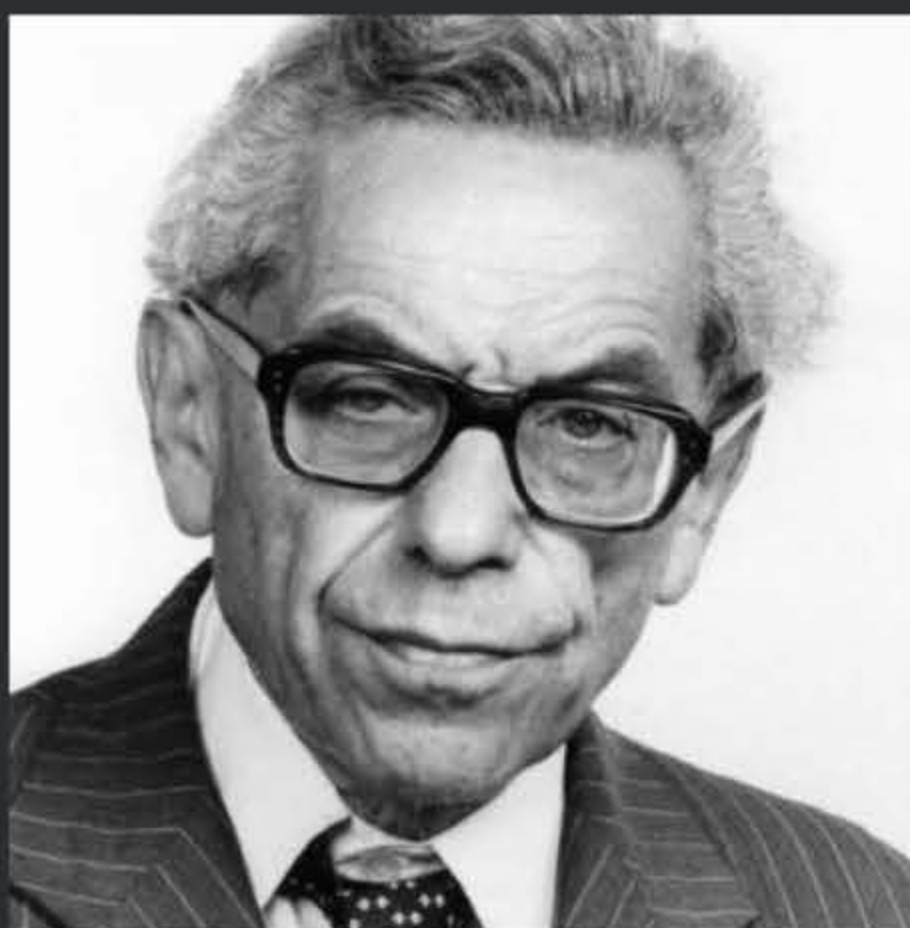
$$n! = x^k \pm y^k$$

with $x, y, n \in \mathbb{N}$, with $xy > 1$ and $k > 2$?

What are these mysterious patterns in the coprimes?

All this and more at the Mini Math Talk
5 PM, Tuesday, September 30, 2025 in A&S 364

Snacks Provided

What does this guy have to do with it?

No prior math knowledge required, only that your brain is open

Talk by Jonas Barfield