

Our mathematical Universe by Max Tegmark

I purchased and tried giving the book "Our mathematical universe" by Max Tegmark a quick skim read, but there is no mathematical description. it's just a physics. By the way the print letters is too small. I need a magnifying loupe. . . .

Why does mathematics explain the universe so well?
From the being big bong to distant future via parallel worlds.

Where I proceeded to read about two thirds, finally, mathematical considerations came out.
Really funny.

I thought it was a stupid book first, but in reality it was an interesting book.
There was a reason for becoming a best seller of science in the United States.

As to the mathematical Universe hypothesis

External Reality Hypothesis (ERH):
There exists an external physical reality completely independent of us humans.

Mathematical Universe Hypothesis (MUH):
Our external physical reality is a mathematical structure

What is a mathematical structure?
Equivalence: Two descriptions are equivalence if there's a correspondence between them that preserves all relations.

Baggage and mathematical structure
Mathematical structure: set of abstract entities with relations between them

As for infinite problems
Carl Friedrich Gauss, sometimes referred to as "the greatest mathematician since antiquity," had this to say two centuries ago: "I protest against the use of magnitude as something completed, which is never permissible in mathematics, Infinity is merely a way of speaking, the true meaning being **a limit which certain ration approach indefinitely close**, while others are permitted to increase without restriction."



