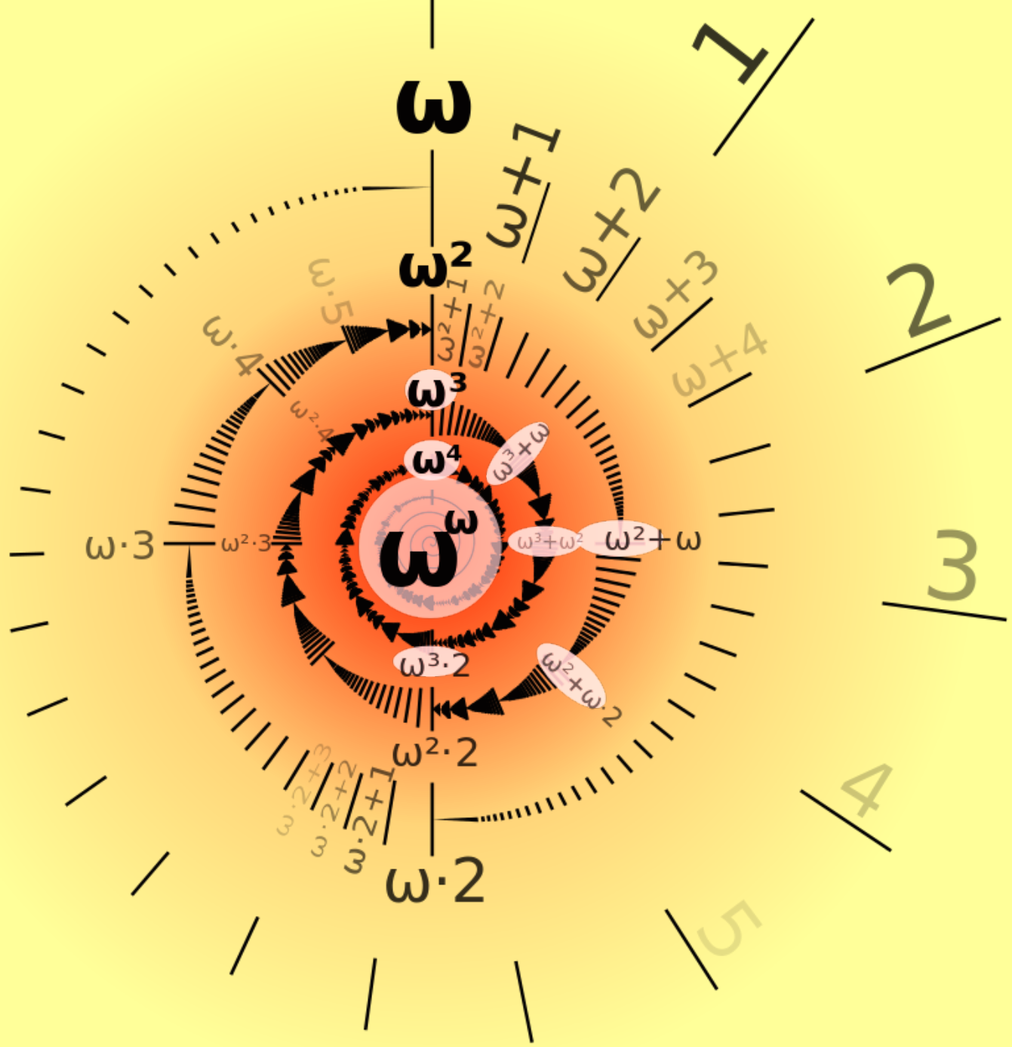
Radical Pi presents:

Completeness, Reality, Unreality, Surreality

by Professor Zbigniew Fiedorowicz



http://commons.wikimedia.org/wiki/File:Omega-exp-omega-labeled.svg

The real numbers are obtained from the rational numbers by filling in the gaps in between, a process called completion. One can further extend the real numbers to the complex numbers, but the complex numbers can not be ordered. Is it possible to extend the real numbers to ordered fields? What do these fields look like? Are there any gaps in these fields? If so, can we fill in these gaps? Is calculus possible in these fields? I will discuss these questions and try to make my talk as accessible as possible to anyone with a good background in calculus.

Wednesday, November 5, 5 PM

Undergraduate Math Study Space (MA 052)

Free pizza!