

Supersymmetry: Natural, Beautiful, and Realistic

Frank Dodd (Tony) Smith, Jr. - 2019

Ethan Siegel (Forbes 12 Feb 2019) says "... The dream of solving ... with SUSY ... masses ...[of]... the fundamental particles of the Standard Model ... or ... dark matter ... or ... the fundamental constants ... has vanished ... with the LHC's Run II ... and a generation of physicists must now confront that reality ...

**Supersymmetry may be the Greatest Failed Prediction
in Particle Physics History ...".**

Peter Woit (10 Feb 2019 blog post and comments thereon) says "... in 2017 ... it had ... become clear that negative LHC results about SUSY ... had falsified theorist's most popular scenarios for how to extend the Standard Model ... I [Woit] don't have a well-motivated BSM [Beyond Standard Model] ...

Neither does anyone else ...".

What Siegel and Woit say is the Consensus View of Physicists
and their Collaborations and Institutions.

It is also WRONG!

**There exists a Natural, Beautiful Supersymmetric Physics Model
that is Realistic = Consistent with Experimental Results and Observations.**

Why do Siegel, Woit, and the Consensus ignore it ?

It is only published on my web site and the viXra archive

<http://www.valdostamuseum.com/hamsmith/>

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because Consensus Physics has Blacklisted me.

How does it work ?

At Planck Energies it is an Octonionic model

based on the **Real Clifford Algebra $Cl(16)$**

with **8-dimensional Spacetime**

and

28 Spin(8) Gauge Bosons and 28 Ghosts

and

8 Fundamental Fermion Particles and 8 Antiparticles (one generation).

In the Octonionic Lagrangian

each of the 28 Gauge bosons and 28 Ghosts carry 1 dimension

and

each of the 8+8 Fermions carry 7/2 dimensions

so

the 28+28 = 56 Bosonic terms

are **SUperSYmmetric** with

the **(8+8) x 7/2 = 56 Fermionic terms.**