

# “YES VIRGINIA, QUANTUM MECHANICS CAN BE UNDERSTOOD”

the title taken from a quote by the well know turf expert and sometimes field theorist

Bertram W. Wooster

*A tale of how Bertie backed into Einstein’s idea of a unified field theory.*

by

John P. & Michael J. Wallace



VIRGINIA, BERTIE, AND JEEVES TAKE UP PHYSICS HOPING TO UNDERSTANDING QUANTUM MECHANICS. IN THE PROCESS THEY TAKE A GRAND TOUR ON AN OLD SAILING VESSEL AND AID A SOW IN DISTRESS. ON THEIR JOURNEY THEY DISCOVER PHYSICS IS NOT AS DIFFICULT AS THEY IMAGINED. AFTER DISMANTLING PHYSICS THEY REASSEMBLE IT IN A FORM WHERE GRAVITY, THE STRONG FORCE, THE WEAK FORCE, AND ELECTROMAGNETISM ALL STEM FROM UNDERSTANDING A GAMBLING STRATEGY KNOWN AS THE FAIR-GAME.

WE NEED CHARACTERS TO BOTH LIGHTEN THE PLOT AND BRING SOME LIGHT TO THE SUBJECT. THE SIMPLE CREATIONS OF P.G. WODEHOUSE CAN BE DROPPED INTO ANY TIME PERIOD, BUT ARE PARTICULARLY ADAPTED TO BOTH THE PRESENT, 1900, AND THE EARLY 1930S WHEN TROUBLES WERE IGNORED. OUR STORY ABOUT QUANTUM MECHANICS IS BEST TOLD WITH THE HELP OF THESE CHARACTERS WHO RESPOND TO A CULTURE OF FASHION AND CONFORMITY BY CHEERFULLY DISMANTLING THE NONSENSE AND IN THE PROCESS SHED LIGHT ON THE DARK. THE NEUTRINO WILL NOW BE IN HER PROPER WEIGHTLESS SUPPORTING ROLE.

THAT GREAT CULTURAL DIVIDE BETWEEN SCIENCE AND THE ARTS FIRST EXPOUNDED ON BY C.P. SNOW WAS FOUND TO BE A MERE DITCH THAT COULD BE STEPPED OVER. THE SINS OF THE PAST WERE MULTIPLE VIOLATIONS OF THE CONSERVATION OF ENERGY, FORCED NOTIONS ABOUT MASS, AND NON-PHYSICAL GEOMETRIES.

BY DEFINING MASS WITHOUT THE AID OF THE STANDARD MODEL, PARTICLES AND THEIR PHYSICAL PROPERTIES ARE MUCH EASIER TO DESCRIBE. THE ELECTRON NOW HAS STRUCTURE AND IS NO LONGER CAPTURED IN A POINT. THE STRUCTURE DEFINES THE ELECTROSTATIC FIELD REMOVING THE NEED FOR THE SINGLE VIRTUAL PHOTON OF QUANTUM ELECTRODYNAMICS. THE GLUON AND AXION ARE ALSO NO LONGER REQUIRED TO SHORE UP THE NUCLEUS. THE GOD PARTICLE GETS DEMOTED TO BE ANOTHER UNSTABLE BOSON.

THE ACTION OF OUR STORY IS TRIGGERED BY AN EU DIRECTIVE TO NORMALIZE PORK PRODUCTION, ELIMINATING NON-CONFORMING BREEDS. THIS PUTS A BELOVED AND OVERLY LARGE SOW IN DANGER OF AN EXPERIMENTAL PROGRAM TO AUTOMATE FAUX SCHNITZEL PRODUCTION USING ACCELERATOR BEAM TECHNOLOGY. THESE CAVE DWELLING ACCELERATOR TECHNICIANS PICKED ON THE WRONG HOG.

## OUR CHARACTERS

*Virginia*, OUR HEROINE, A GIRL STUDYING PHYSICS AND ITS HISTORY AS ONE OF THE POLITICALLY CORRECT FASHIONS OF THE DAY. SHE LIKES TO USE BERTRAM LIKE A HUNTING DOG TO FETCH.

*Bertram Wilberforce Wooster*, DESCENDANT OF WILBERFORCE IS TOTALLY WITHOUT PREJUDICE, A VACUOUS BUT HONEST YOUNG MAN, COLLECTS STAMPS WITH AN INTEREST IN GAMES OF CHANCE. BERTRAM WAS DRAWN TO QUANTUM MECHANICS AS A STATISTICAL SCIENCE TO GIVE HIM AN EDGE AT GAMBLING.

*Clarence*, SINGLE-MINDED BREEDER OF THE EMPRESS, A PRIZE WINNING FAT PIG, AND HARD-NOSED EXPERIMENTALIST WHEN IT COMES TO PIG SCIENCE AND VIRGINIA'S GUARDIAN.

*Rodrick Spode*, GLOBAL SCIENCE PRESS BARON, FASCIST LEADER OF THE BLACK SHORTS, REPRESENTATIVE SCIENTIFIC POLITICIAN, WHOSE PREDICTION OF AN ICE AGE WAS AWARDED A NOBEL PRIZE BY THOSE GRATEFUL IT DID NOT OCCUR AND IS NOW WAITING FOR A SINECURE AS DIRECTOR OF THE IAS. THE IAS, IN JEEVES DROLL HUMOR, IS THE INSTITUTE FOR ADVANCED STUPIDITIES.

*Jeeves*, WHO LIKES FISHING, THE SEA, AND IS OUR NATURAL PHILOSOPHER IN WAITING.

*Empress*, A LARGE SOW OF UNKNOWN ORIGIN DISGUISED AS A BERKSHIRE WINTERING AT A FARM IN THE APENNINES WITH HER FAVORITE BOAR, RUFFY.

A CREW OF VENETIAN SAILORS TO KEEP THINGS INTERESTING ALONG WITH TWO CHESAPEAKES TO INSURE THE INTERESTS OF THE EMPRESS.

## THE CHAPTERS

**FASHION** LACKING UNDERSTANDING OF THE ROLE OF LANGUAGE  
LED FASHIONABLE COMMITTEES TO FLAWED QUANTUM MODELS.

**SPACES** MATHEMATICIANS IGNORING EXPERIMENT INTRODUCED  
THEIR OWN FANTASY SPACES FOR PHYSICS ENSURING IGNORANCE.

**FAUST AND THE NEUTRINO** USING RELATIVITY TO DERIVE THE  
BASIC EQUATIONS OF QUANTUM MECHANICS RESTORES AN EXPERI-  
MENTAL SCIENCE.

**Dimensions** INTRODUCING STATISTICAL INDEPENDENCE WITHIN  
QUANTUM SPACES PRODUCING INFORMATION, MATTER, AND FIELDS.

**INFORMATION** INFORMATION'S TWO FORMS PRODUCES THE QUAN-  
TIZED FIELDS FOR BOTH PHOTON AND NEUTRINO.

**QUANTUM ROULETTE** STRUCTURAL DERIVATION OF SPIN FOR PAR-  
TICLES AND FIELDS BURIES A LONG STANDING ABSTRACT FANTASY  
ABOUT SPIN.

**FORCES** A TOPIC THAT NO LONGER NEEDS AVOIDING IN QUANTUM  
MECHANICS BY ELIMINATING SOME POORLY MADE ASSUMPTIONS.

**LANDFALL** THE STRUCTURAL ORIGIN OF GRAVITY AND STRONG  
FORCE COMPLETE THE TRIP TYING THE FOUR FORCES TO BERTIE'S  
FAIR-GAME.

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