

# “YES VIRGINIA, QUANTUM MECHANICS CAN BE UNDERSTOOD”

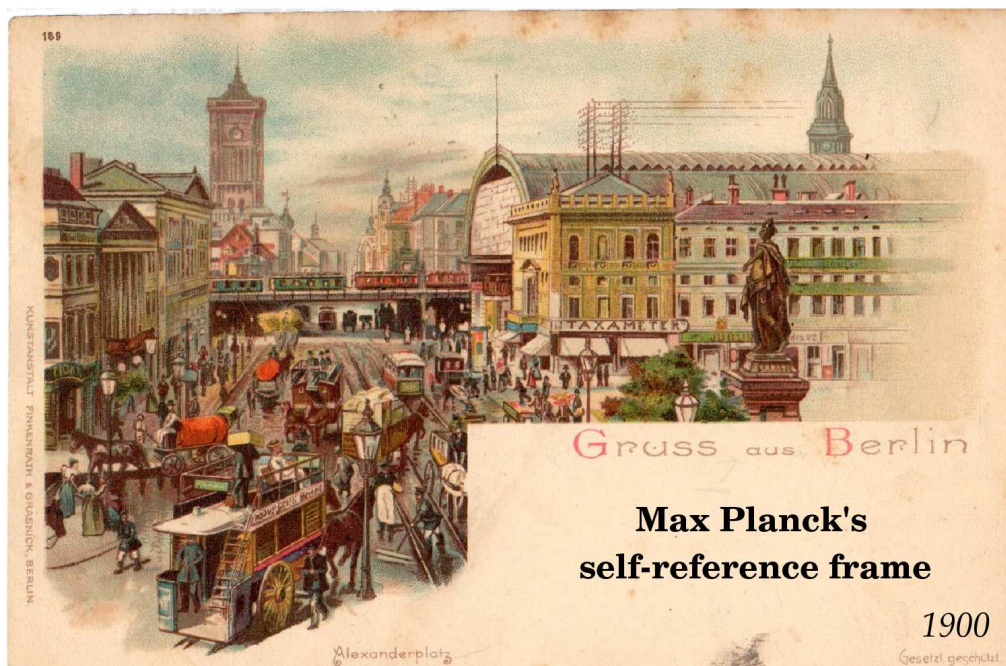
the title taken from a quote by the well know turf expert and sometimes field theorist

Bertram W. Wooster

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

by

John P. & Michael J. Wallace



BY DEFINING MASS WITHOUT THE AID OF THE STANDARD MODEL, PARTICLES AND THEIR PHYSICAL PROPERTIES ARE MUCH EASIER TO DESCRIBE. THE ELECTRON NOW HAS AN INTERNAL STRUCTURE AND IS NOT JUST A POINT CHARGE. THE GLUON AND AXION ARE NO LONGER NECESSARY. THE GOD PARTICLE GETS DEMOTED TO BE ANOTHER UNSTABLE BOSON.

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. THE NEUTRINO WILL NOW BE IN HER PROPER WEIGHTLESS SUPPORTING ROLE. 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.

VIRGINIA, BERTIE, AND JEEVES TAKE UP PHYSICS WITH THE HOPE OF 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 THAT PHYSICS IS NOT AS DIFFICULT A SUBJECT 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.

THAT GREAT CULTURAL DIVIDE BETWEEN SCIENCE AND THE ARTS FIRST EXPOUNDED 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 AND STRANGE NOTIONS ABOUT WHAT MASS ACTUALLY REPRESENTS.

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 SCHNITZEL PRODUCTION USING ACCELERATOR BEAM TECHNOLOGY. WITH FRIENDS LIKE VIRGINIA THEY 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 WHO 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 WAS DRAWN TO QUANTUM MECHANICS AS A STATISTICAL SCIENCE TO GIVE HIM AN EDGE AT GAMING.

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

*Rodrick Spode* GLOBAL SCIENCE PRESS BARON FORMER 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. PERIOD POST CARDS AND PHOTOS FROM THE VOYAGE.

## 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 EXPERIMENTAL SCIENCE.

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

**INFORMATION** INFORMATION'S TWO FORMS PRODUCES THE QUANTIZED FIELDS FOR BOTH PHOTON AND NEUTRINO.

**QUANTUM ROULETTE** STRUCTURAL DERIVATION OF SPIN FOR PARTICLES 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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