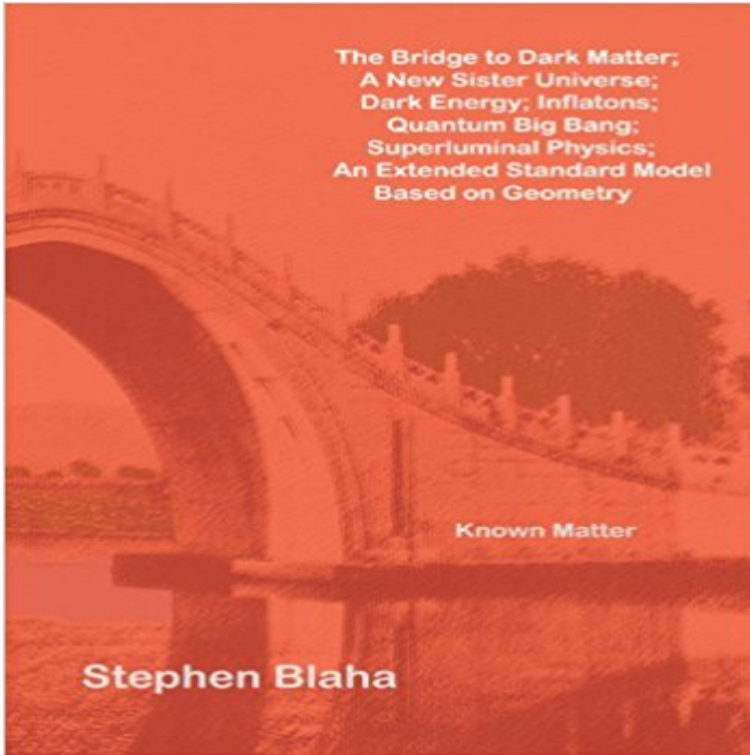


# The Bridge to Dark Matter; A New Sister Universe; Dark Energy; Inflaton; Quantum Big Bang; Superluminal Physics; An Extended Standard Model Based on



The current major problems in particle physics and astrophysics are the source of possible new features: of The Standard Model, of the nature of Dark Matter, of the nature of Dark Energy, and of the nature of the Big Bang. In this book we propose an extended version of The Standard Model based on earlier work that adds another  $SU(2) \times U(1)$  symmetry to the usual Standard Model, and an accompanying set of particles that we propose are the constituents of Dark Matter. This additional symmetry follows directly from a geometrical foundation for space-time within a 16 dimensional flat space that we call the Flatverse. Upon introducing a form of quantum coordinates we find that The Standard Model in those coordinates has no infinities, that the Big Bang is finite (no singularity), and that the Dark Energy that fuels the expansion of the universe has inflatons that consist of the imaginary part of the quantum coordinates - a free abelian gauge field. This field first stabilizes the universe in the Big Bang period and then causes a massive inflationary expansion. The complete theory has a remarkable convergence of features that remove infinities, identify the nature of Dark Matter and of Dark Energy, specify a physically acceptable Big Bang, and predict the observed expansion of the universe. In addition we address the recently reported discovery of the Higgs particle that explains the origin of the masses of the other elementary particles but does not explain the origin of the Higgs particle mass terms and thus leaves open the ultimate question - What is the origin of mass and inertia? We show that the only final answer can be that it arises as a separation constant in Higgs dynamic equations that include coordinates of this universe and a sister universe. These two 8-dimensional universes are embedded in the 16-dimensional Flatverse. Thus the sister universe is the ultimate source of

mass and inertia for our universe. The Flatverse is an absolute reference frame that is consistent with Einsteins General Relativity according to General Relativists. The Flatverse very nicely provides an environment for the two universes - joining them together to provide mass and inertia at their most fundamental level as well as providing, at last, a concrete definition of inertial reference frames. Result: a fundamental synergy between mass, inertia, and inertial frames. In recent weeks major experimental findings on Dark Matter have been presented that at last begin to clarify the nature of Dark Matter and its interactions with normal matter. These findings are consistent with a Dark Matter  $SU(2) \times U(1)$  set of interactions that parallels, to a great extent, the known ElectroWeak interactions of normal matter. We will explore a detailed theory of Dark Matter interactions, and their relation to ElectroWeak interactions in this book. It is based on our previous work. In the previous work we did not specify a relation between ElectroWeak and DarkWeak interactions due to the absence of experimental data. With the information now in hand we can develop a detailed relationship. Lastly, the book emphasizes again our belief that the origin of particle physics lies in a combination of Asynchronous Logic and space-time geometry.

Agradable ruta realizada junto al Bilbao Alpino que parte desde la localidad alavesa de Guinea, en la vertiente Sur de la sierra de Arkamo y que discurre por las cimas de Olvedo, Pelistornes y Cantoblanco.

Desde Guinea el camino es muy evidente, ya que las dos primeras cimas están muy cerca y separadas por un pequeño collado. Su subida es corta y casi directa y está señalizada justo a la salida del pueblo.

Al Olvedo se llega relativamente rápido. A pesar de que las nubes a veces nos impiden apreciar las vistas, el paisaje se intuye precioso.

2017-01-22\_10-36-17

Para pasar del Olvedo al Pelistornes tan sólo tenemos que cruzar el collado y llegaremos en apenas 10 minutos a nuestra segunda cima del día.

2017-01-22\_10-53-02

Una vez coronadas las cimas anteriores hay que continuar la travesía en dirección a la al Cantoblanco, que se asciende tras un durillo cortafuegos.

20170122\_123405

Desde la cima tenemos justo en frente el Montemayor, máxima altura de la vecina sierra de Arkamo.2017-01-22\_13-00-09

Finalmente, iniciamos el descenso hacia la curiosa localidad de Salinas de Añana...

20170122\_142807

...donde podremos completar la ruta con una visita a las propias Salinas.

20170122\_142812

Una ruta de unos 15 kilómetros sin dificultades reseñables. Únicamente se hace necesaria logística de vehículos. De no tener esta facilidad entonces es mejor realizar únicamente la subida al Olvedo y Pelistornes.

Tu voto:

Publicado en Araba, Rutas fáciles | Deja un comentario

Los Retos de 2017

Publicado el 01/24/2017 por 12meses12montes

Bueno, un nuevo año que ha pasado y uno nuevo que acaba de comenzar. 2016 fue un año muy intenso, si bien los retos que nos marcamos en un principio sólo se vieron cumplidos en una tercera parte. No fue un buen año para ellos, ésta vez la alineación de planetas se generó en pocas ocasiones.

Sin embargo, no decaemos. Cogemos el testigo y no vamos a desistir en su intento, por lo que los retos que no conseguimos cumplir en 2016 serán los que tratemos de realizar en 2017, más algunos otros, a ver qué os parecen. Seguir leyendo

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