

”

”

*

"

"



:

:

•

"

"

"

"

"

"

:

:

(Bishop Berkley)

"

"

.(macro)

(micro)

1927

" ;
"

(Macro)

" ;

" "



" ...

" :
1"
(groups)

()

() "
2"
(Benedict de Spinoza

...

"

1 Einstien, A., On The Method of Theoretical Physics, Harvard University Press, Cambridge, Mass, 1973, p. 113.
2 Ibid.

3

”

4

”

()

5

.M

6

3 Ibid.

4 Einstein, A., *On The Method of Theoretical Physics*, op.cit, p. 23.

& .5

.70-67

: .6

.197 2008 350

" "

⁷() () () () () ()
2010 / ()

(Original)

.() ()

(Macro)

. .7

.⁸(Micro)

()

.
()

.
9

.
10
(Stereotype)

8 .Hawking, Stephen & Mldinow, Leonard. The Grand Design, BANTAM PRESS, London, 2010.

: .9
.180 2005
.10

:

)

11

(

¹²

()

!!¹³

!!!

- -

.(Uncertainty)

(Indeterminacy)

.200

.11

.202

.12

.13

¹⁴()
)

1928 (

: •
: _____ ❖

322-384)

¹⁵ (.

1994 1 . : .14

.110-109

.16 2003 .15

" "

(Apriori)

16

()

(Noumena)

.(phenomena)

.()

17

) .

.(

1993

.17
(72)

.16

.17

.163

120

()

A.N.)

(Whitehead

18

(!)

()

!

(M)

()

()

.281 1986

.18

" "



19

)

(

()

()

:

() () ()

!

)

.(

()

(imaginative conjecture)

"

19.Trusted, Jennifer, Physics and Metaphysics, Rutledge, London and New York, 1994, p. 124.

²⁰(Pure Fictitious) "

(Axioms) " "

(Convenient Postulates)

" :

²¹

²²

(1

20 .Einstien, A., On The Method of Theoretical Physics, op.cit, p. 145.

21. Einstein, A., A Letter To Besso, August 28, 1918.

.157-156 1970

.22



(2

:

(1

() (/) :
()
()
()

.
:23 (REDUCTION)
:

"

"

24"

()

:

.. (RESOURCE) ()

.1982

612

. 23

24

125

" "



()

- -

()

() ()

(Teleological)

(2

Appearance &)

25

Reality)

M)

.

(

.

/

:

)

:

(

.

:

)

(

()

.() (≠)

3

.25

.89 2009

() () () ()

.27

.()

.26

:

(1

- -

(2

(3

.28

.26

.81 1 1982

.141 .27

.91 .28

: _____ () _____ ❖

29

" "

: () _____ : _____ .29
.214 .

"

"



30

" "

.215 .30

130

31

.216 . .31

131

" "



32

" " " " " "

33

" "

	.217-216 .	.32
:	() :	.33
	.225-224 .	.

34

35

"

"

"

"

.226-225 . .34

.226 . .35

" "



36

: _____ ❖

37

38

(An Object) " "

...

_____ .227-226 . .36

37 .Harris, Errole. Science and Metaphysics, in (The Future of Metaphysics), Edited by: R. E. Wood. Quadrangle Books, Chicago, 1970, p. 192.

38 .Ibid.

39

A.F.Taylor

39 Ibid.P. 107.

135

	:	.1
	.2009 3	.2
:	.2008 350	.3
.1970		.4
	.1986	.5
(72)	.1993	.6
	.1 1982	.7
.2003	:	.8
	.2005	.9
. :	&	.10
()	:	.11
.	.	.1994 1
.	.	
.	.	

: _____

1. Einstein, A., A Letter To Besso, August 28, 1918.
2. Einstein, A., On The Method of Theoretical Physics, Harvard University Press, Cambridge, Mass, 1973.
3. Harris, Errol. Science and Metaphysics, in (The Future of Metaphysics), Edited by: R. E. Wood. Quadrangle Books, Chicago, 1970.
4. Hawking, Stephen & Mlodinow, Leonard. The Grand Design, BANTAM PRESS, London, 2010.
5. Truett, Jennifer, Physics and Metaphysics, Routledge, London and New York, 1994.

2011/3/22