



Across

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| <p>1 using something over and over (9)</p> <p>5 scientist whose name is given to a fundamental quantum amount (6)</p> <p>6 rhythmic movement related to oceans (5)</p> <p>10 double star system (6)</p> <p>12 unite (7)</p> <p>16 an operating system that, as it says, is not Unix :-) (abbrev.) (3)</p> <p>17 fixed benchmark to compare to (9)</p> <p>19 device connecting a computer and a phone line (5)</p> <p>20 the first relativity theory (7)</p> | <p>23 the program or machine that verifies results (9)</p> <p>24 theory to compare physical viewpoints (10)</p> <p>25 sub component of the whole (6)</p> <p>27 western US teaching institution involved in LIGO (7)</p> <p>29 of stars (9)</p> <p>32 country with three interferometers (abbrev.) (3)</p> <p>35 response from device not related to measurement of interest (5)</p> <p>38 brightness (10)</p> |
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- 39 US government science funding body (abbrev.) (3)
- 40 difference in timing (5)
- 42 value along measurement axis (10)
- 43 Japan's interferometer (abbrev.) (4)
- 44 gadget that emits light in a very narrow frequency range (5)
- 46 invisible but universally conserved quantity with many forms (6)
- 47 the large international scientific collaboration overseeing E@H (abbrev.) (3)
- 48 directional polarity (12)
- 53 unit of electrical capacitance (5)
- 55 approximate direction of Livingston interferometer 'y' arm (abbrev.) (2)
- 57 another French scientist specialising in optics (5)
- 58 co-incide in time and place (7)
- 60 eastern US teaching institution involved in LIGO (3)
- 62 common computer memory type (abbrev.) (3)
- 63 two opposing poles (6)
- 64 darkest place in the universe (9)
- 66 the Aricebo data based search sent out with some E@H work units (abbrev.) (5)
- 67 particle of light (6)
- 69 the device response of interest (6)
- 70 unit of electrical current (abbrev.) (3)
- 71 southern European state with an interferometer (5)
- 74 that Microsoft operating system (7)
- 76 at right angles to (13)
- 77 single pole (8)
- 78 general name for a program or machines that responds to requests (6)

Down

- 2 space between two mirrors (6)
- 3 worldwide connection of computers (8)
- 4 the German interferometer (abbrev.) (3)
- 5 time rate of energy (5)
- 7 popular operating system category based on Unix (5)
- 8 a network of connections (3)
- 9 flow of electric charges (7)
- 11 one single pathway along an interferometer (3)
- 13 unit of electrical resistance (3)
- 14 device to measure different pathways using phase differences (14)
- 15 how closely one can separate two adjacent sources (10)
- 16 the universal force involving mass (7)
- 18 French scientist specialising in optics (5)
- 19 object that mainly reflects light (6)
- 21 the second relativity theory (7)
- 22 temperature scale starting at absolute zero (6)
- 26 virtual shape of the distant star landscape (6)
- 27 a computer's 'brain' (abbrev.) (3)
- 28 has two interferometers in the one vacuum space (7)
- 30 interferometer in a southern USA forest (10)
- 31 future large spaced based interferometer (4)
- 33 of movement of the Earth's substance (7)
- 34 the most well recognised scientist of the 20th century (8)
- 36 unit of power (4)
- 37 interferometer (abbrev.) (3)
- 40 device to amplify received light to electric current (15)
- 41 center of our planetary system (3)
- 45 sort of measuring ruler (6)

- 47 the Livingston interferometer (abbrev.) (2)
- 49 southern hemisphere nation with rudimentary interferometer (9)
- 50 the Italian interferometer (abbrev.) (5)
- 51 basic quantity (4)
- 52 output returning to influence input (8)
- 53 an amount of flow per unit area (4)
- 54 general name for a repository of information (8)
- 56 northern European country that has the Albert Einstein Institute (7)
- 59 whole stars can be made of this nuclear particle (7)
- 60 one of a scientist duo that experimented to disprove the aether (9)
- 61 group of four poles (10)
- 65 the long Hanford interferometer (abbrev.) (2)
- 68 the short Hanford interferometer (abbrev.) (2)
- 69 divide (5)
- 72 the Aussie interferometer collaboration (abbrev.) (4)
- 73 length in kilometers of the longest US interferometer arms (4)
- 74 a propagating pattern of some effect (4)
- 75 one way current (abbrev.) (2)