

HALTON ARP'S QUANTIZED QUASAR REDSHIFTS RESEMBLE RADIO DECAY RATES\*

\*Radio decay rates are quantized. See "Systematic Fractional Relationships in Radioactive Decay Measurements". View [www.lollo.org.nz](http://www.lollo.org.nz)

QUANTIZED QUASAR REDSHIFTS

"(Halton) Arp believes that the observed redshift value of any object is made up of two components: the inherent component, and the velocity component... The inherent redshift is a property of the matter in the object... (Arp) suggests that quasars are typically emitted from their parent galaxies with inherent redshift values of up to  $z = 2$ ... In addition, these inherent redshift  $z$  values of quasars seem to be quantized!" (Internet source. Search redshift quantization)

QUANTIZATION OCCURS AT...

$$z = 0.061, 0.3, 0.6, 0.96, 1.41, 1.96$$

Such that

$$1.23(1 + z_1) = (1 + z_2)$$

e.g.  $1.23(1 + 0.061) = (1 + 0.3)$

and  $1.23(1 + 0.3) = (1 + 0.6)$  and so on (H. Arp)

REWRITING INTERVALS

Note that 1.23 is, in fact,  $10/9 \times 10/9$   
So we can write.....

$$\begin{aligned} 10/9 \times 10/9 \times 1.061 &= 1.3 \\ 10/9 \times 10/9 \times 1.3 &= 1.6 \\ 10/9 \times 10/9 \times 1.6 &= 1.96 \\ 10/9 \times 10/9 \times 1.96 &= \underline{2.41} \\ \underline{10/9 \times 10/9 \times 2.41} &= 2.96 \end{aligned}$$

Please compare the above table with Tables 1a and 1b, attached over page. And please read Systematic Fractional Relationships in Radioactive Decay Measurements. See website.

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TABLE 1a The 2.41 group of radioactive nuclides.  
Note the decay constant of 2.41

Nuclide	Half Time	Fractional Relationship	Decay Constant
?	86.4	$2/3 \times 129.6$	$.03 \times 2.41$
?	43.2	$1/2 \times 86.4$	$.06 \times 2.41$
?	28.8	$2/3 \times 43.2$	$.1 \times 2.41$
Nd 144	21.6	$3/4 \times 28.8$	$.13 \times 2.41$
Th 232	14.4	$2/3 \times 21.6$	$.2 \times 2.41$
U 235	7.2	$1/2 \times 14.4$	$.4 \times 2.41$
Rb 87	4.8	$2/3 \times 7.2$	$.6 \times 2.41$
Ir 176	3.6	$3/4 \times 4.8$	$.8 \times 2.41$
?	(2.4)	$2/3 \times 3.6$	$1.2 \times 2.41$
K 40	1.2	$1/2 \times 2.4$	$2.4 \times 2.41$
Sm 148	.8	$2/3 \times 1.2$	$3.6 \times 2.41$
Pt 190	.6	$3/4 \times .8$	$4.8 \times 2.41$
Re 187	.4	$2/3 \times .6$	$7.2 \times 2.41$
Hf174/Te130	.2	$1/2 \times .4$	$14.4 \times 2.41$
?	.13	$2/3 \times .2$	$21.6 \times 2.41$
?	.1	$3/4 \times .13$	$28.8 \times 2.41$

TABLE 1b The 1.5 group of radioactive nuclides.  
Note the decay constant of 1.5

Nuclide	Half Time	Fractional Half Time	Decay Constant
U 238	4.6	$\frac{10}{9} \times \frac{1}{2.41}$	1.5
In 115	5.1	$\frac{10}{9} \times \frac{10}{9} \times \frac{1}{2.41}$	$\frac{9}{10} \times 1.5$
Gd 113	9	$\frac{9}{10}$	$\frac{10}{9} \times \frac{10}{9} \times 1.5 \times \frac{1}{2.41}$
Se 82 La 138 Sm 147 Gd 152	1.11	$\frac{10}{9}$	$1.5 \times \frac{1}{2.41}$

'Powers of ten' excluded. These may be found from the standard half life listings.

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