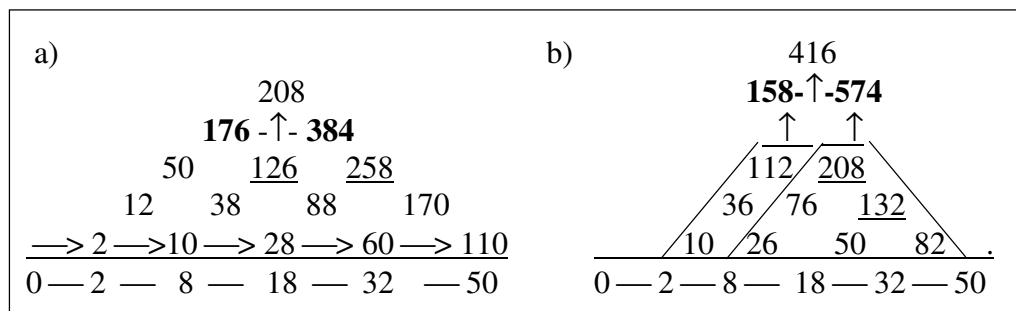


## Supplementary file II

### Number pyramids built on the $2x^2$ -chain behind the periodic system

with reference to Wohlin 2015 and the "ES-chain" where  $x = 5 \rightarrow 0$  with exponent  $2/3$  times  $10^2 =$   
 $= 292\ 252 - 208 - 159 - 00$  (abbreviated numbers),

These numbers referred to as 5' - 4' - 3' 2'-1'.



Figures referring to Tables 1 and 2 in Wohlin 2015

#### Fig. 1a: Pyramid on the cumulative series.

Top numbers refer to Table 1 on aa side chains (R) with mixed codons (1st and 2nd base):

**384** +1 = row 1 = GA + CA + UG + AG = Glu + His + Trp + Arg  
**208** +1 = row 2 = GA + CA + UG + AG = Asp + Gln + Cys + Ser  
**176** = row 3 = GU + CU + UC + AC = Val + Leu + Ser + The

#### Fig 1b. Pyramid on the basic series.

Sums of levels, to compare with Table 2 on aa with non-mixed codons:

**158** +1 = G1+C1-coded aa = CG + CC + GG + CC = Arg + Pro + Gly + Ala  
**574** +1 = U+A1-coded aa = UU + UA + AU + AA = Phe + Leu + Tyr,  
 + Met + Ile1 + Ile 2 + Lys + Asn

416, the interval, = the difference between G+C-coded aa and U+A-coded aa.

The -2 in both series should be noted.