μ_B

Bandyopadhyay $_H$ ameroff/Lezing $_M$ icrotubuli$_h$ et$_g$ rote$_d$ ebat$_o$ ver$_h$ et$_b$ ewustzijn/engUnfortunately, Icouldnotfindanyarticle

$_o$ bjective$_r$ eduction).Forinstance, fromwebonecanfindafurtherpuzzlingresulthttp : //www.ncbi.nlm.nih.gov/pmc/articles

typetubules.Brainmicrotubulesre−

assembledinvitroformlatticesoftypeBandforthemthelatticemusthavesurfacediscontinuities.Thismakessenseformicrotu

$_E$ Mandelkow$_s$ ong$_E$ MMandelkow.pdf)concludesthatonlythelatticeBisrealizedinnature.Thislatticedoesnotpossesshelicalsg

β

$z =$

$4a\phi/2\pi$

n^{th}

$z(n) =$

na

$\phi =$

2π

$\Delta z =$

a

$\Delta z =$

0

$_p$ oster$_d$ etail.php?abs =

1435).Ofcourse, alsomorecomplexgatescanbeimaginedbutswapisenoughtobuilduniversalTQC.OfficialbiologyassignstoM

periodicitycharacterizedbythegapbetweenneighboringpathways.

α

β

α

β

2π

$\alpha-$

β

α

β

$\phi =$

$n\times$

$2\pi/13$

ϕ

$\alpha-$

β

13

A

B

2π

$\Delta\Phi_{gap} =$

$n_{gap}2\pi/13$

$\Delta\phi =$

$n_{gap}\times$

$2\pi/13$

$n =$

13

$n =$

$kn_{gap}mod13$

$k =$

$1, 2, ...$

$n_{gap} =$

0

$n_{gap} =$

1

$kn_{gap} \leq$

13

n_{gap}

A

$\alpha-$

β

$n_{gap} =$

2

$n_{gap} >$

1

n

$n(n+$

$1)/2$

$?$

$?$

$?$

α

β

α

β

α

$1 \leq$

$n \leq$

13

$n >$

13

$.$

$[.2-$

$22.5]$

μ

Ω

Ω

10^6

10^{-4}

$_E$ Mandelkow$_s$ ong$_E$ MMandelkow.pdf).