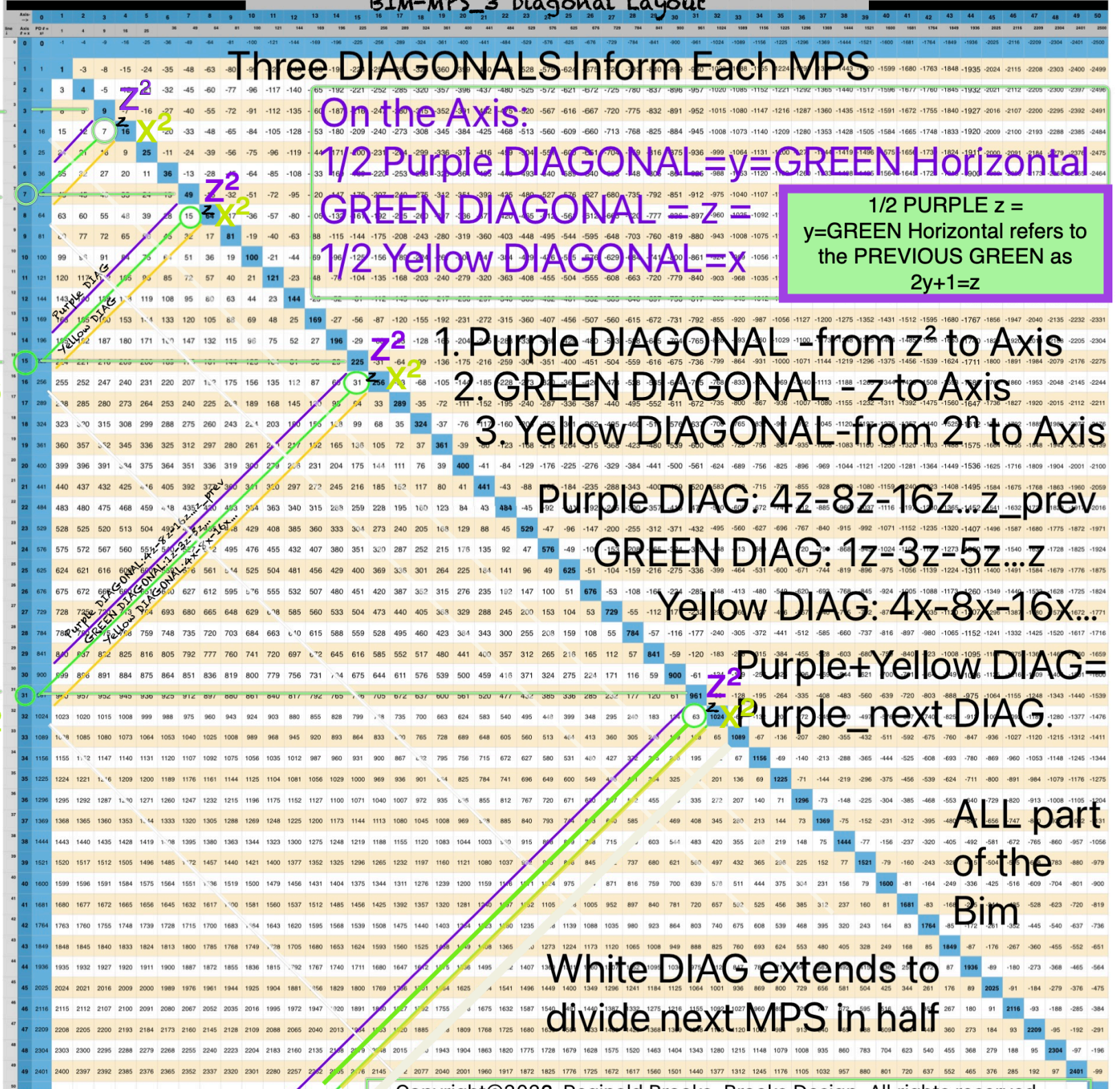


Three DIAGONALS Inform Each MPS



On the Axis:
 1/2 Purple DIAGONAL = y=GREEN Horizontal
 1/2 Yellow DIAGONAL = z =

1/2 PURPLE z =
 y=GREEN Horizontal refers to
 the PREVIOUS GREEN as
 $2y+1=z$

z=3
 x=4

z=7
 x=8

z=15
 x=16

z=31
 x=32

- 1. Purple DIAGONAL - from z^2 to Axis
- 2. GREEN DIAGONAL - z to Axis
- 3. Yellow DIAGONAL - from 2^n to Axis

Purple DIAG: $4z-8z-16z...z$ prev
 GREEN DIAG: $1z=3z=5z...z$
 Yellow DIAG: $4x-8x-16x...z$

Purple+Yellow DIAG =
 Purple_next
 Yellow_prev

ALL part
 of the
 Bim

White DIAGONAL extends to
 divide next MPS in half