

While publishing the results of your simulations based on the

### Standing spin wave resonances in dipole-coupled and uncoupled stripes The stripes are of an infinite length

The number of mesh points across the total width of an individual stripe is  $N$ . The number of stripes which do not make physical sense. Therefore, in a general case the number of displacements

Enter saturation magnetisation value  $4\pi M_s$  for the material (in Gauss)

$$M := 10600$$

Enter the applied field in Oe and gyromagnetic coefficient in MHz/Oe

$$H := 0 \quad \gamma := 2.8$$

Enter stripe thickness  $L$ , its width  $w$  ( $L < w$ ), and stripe edge-to edge separation on the array

$$L := 10 \cdot 10^{-7} \quad w := 340 \cdot 10^{-7} \quad d := 100 \cdot 10^{-7}$$

Enter the number of mesh points along the stripe width (i.e. in the direction  $w$ ).

$$N := 256$$

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Calculated mode frequencies in GHz

	0
0	4.367
1	7.926
2	9.386
3	10.677
4	11.562
5	12.316
6	12.884
ww = 7	13.359
8	13.727
9	14.03
10	14.264
11	14.45
12	14.59

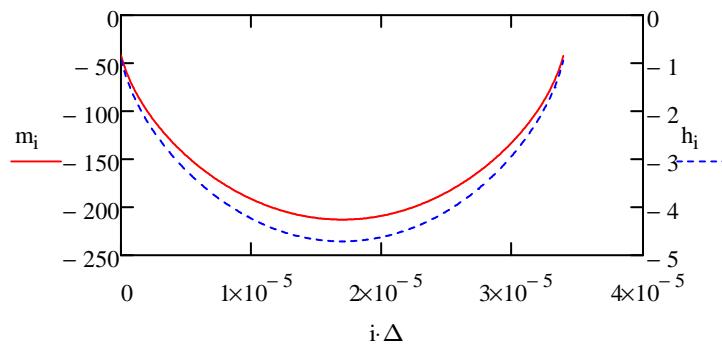
12	14.633
13	14.694
14	14.767
15	...

Enter the mode number for which you want to calculate the profiles of dynamic magi

n := 0

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dynamic magnetisation (left-hand panel) and the internal field (right-hand panel) as a f of the co-ordinate (in cm) across the stripe width



The dynamic field between the stripes

x := 1.01\*w, 1.02\*w.. w + d

