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\\ZEUS\mickael.melzani\$\Documents\Regressi\impedance\_bobine\_40mH.rw3

$\phi = 2 \cdot \pi \cdot f \cdot (t_i - t_u)$

module =  $u / (uR/R)$

Reel = module \*  $\cos(\phi * 180 / \pi)$

| i                     | f<br>Hz               | t <sub>i</sub><br>s    | u<br>V | uR<br>V | R<br>Ω                | t <sub>u</sub><br>s    | phi     |
|-----------------------|-----------------------|------------------------|--------|---------|-----------------------|------------------------|---------|
| 0                     | 10,00                 | 0,0846                 | 0,7040 | 2,166   | 50,00                 | 0,0819                 | 0,1696  |
| 1                     | 100,0                 | 0,0255                 | 1,250  | 2,120   | 50,00                 | 0,0239                 | 1,005   |
| 2                     | 300,0                 | 0,005418               | 1,075  | 0,7910  | 50,00                 | 0,0047                 | 1,353   |
| 3                     | 500,0                 | 0,00395                | 1,458  | 0,6450  | 50,00                 | 0,003497               | 1,423   |
| 4                     | 1000                  | 0,00211                | 4,547  | 0,9230  | 50,00                 | 0,00187                | 1,508   |
| 5                     | 5000                  | 0,0002921              | 4,590  | 1,846   | 500,0                 | 0,000243               | 1,541   |
| 6                     | 1,000·10 <sup>4</sup> | 0,0001908              | 4,990  | 1,008   | 500,0                 | 0,0001664              | 1,533   |
| 7                     | 3,000·10 <sup>4</sup> | 7,441·10 <sup>-5</sup> | 2,119  | 0,3900  | 2000                  | 6,630·10 <sup>-5</sup> | 1,529   |
| 8                     | 5,000·10 <sup>4</sup> | 2,700·10 <sup>-5</sup> | 2,060  | 0,1700  | 1,000·10 <sup>4</sup> | 2,662·10 <sup>-5</sup> | 0,1200  |
| 9                     | 1,000·10 <sup>5</sup> | 8,940·10 <sup>-6</sup> | 1,323  | 1,616   | 1,000·10 <sup>4</sup> | 1,115·10 <sup>-5</sup> | -1,389  |
| 10                    | 3,000·10 <sup>5</sup> | 1,100·10 <sup>-6</sup> | 0,4580 | 2,072   | 1,000·10 <sup>4</sup> | 1,750·10 <sup>-6</sup> | -1,225  |
| 11                    | 1,000·10 <sup>6</sup> | 1,870·10 <sup>-7</sup> | 0,9250 | 9,787   | 1,000·10 <sup>4</sup> | 3,000·10 <sup>-7</sup> | -0,7100 |
| 12                    |                       |                        |        |         |                       |                        |         |
| module<br>Ω           | Reel<br>Ω             |                        |        |         |                       |                        |         |
| 16,25                 | 16,02                 |                        |        |         |                       |                        |         |
| 29,48                 | 15,80                 |                        |        |         |                       |                        |         |
| 67,95                 | 14,66                 |                        |        |         |                       |                        |         |
| 113,0                 | 16,63                 |                        |        |         |                       |                        |         |
| 246,3                 | 15,47                 |                        |        |         |                       |                        |         |
| 1243                  | 37,10                 |                        |        |         |                       |                        |         |
| 2475                  | 93,29                 |                        |        |         |                       |                        |         |
| 1,087·10 <sup>4</sup> | 457,3                 |                        |        |         |                       |                        |         |
| 1,212·10 <sup>5</sup> | 1,203·10 <sup>5</sup> |                        |        |         |                       |                        |         |
| 8187                  | 1484                  |                        |        |         |                       |                        |         |
| 2210                  | 748,8                 |                        |        |         |                       |                        |         |
| 945,1                 | 716,8                 |                        |        |         |                       |                        |         |

