

Pond diviseur de tension

Pond diviseur de tension CORRECTION

TP2 Pont diviseur

Fichiers de simulation

Activité tinkercad

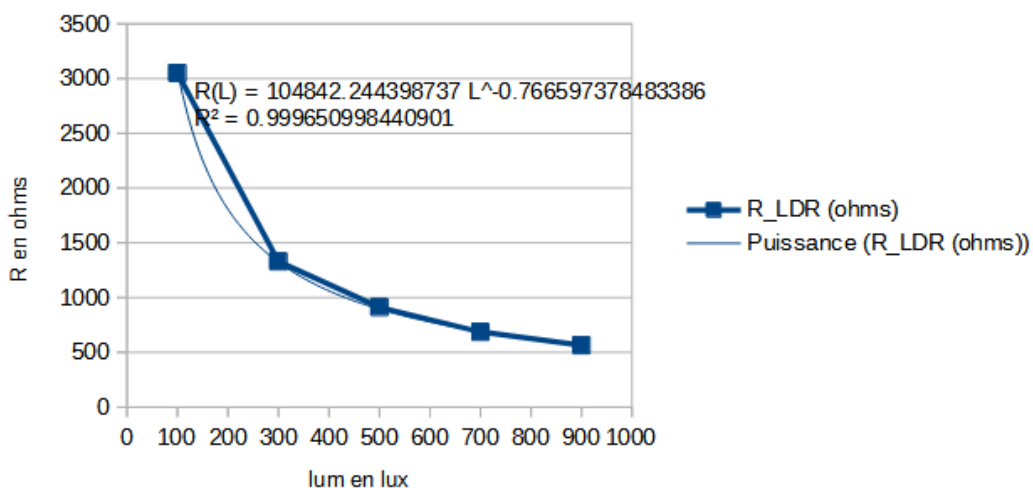
Lien de la classe: <https://www.tinkercad.com/joinclass/R9FK9NZYE>

1SSI_fiche_eleve_LDR.pdf

Éléments de correction

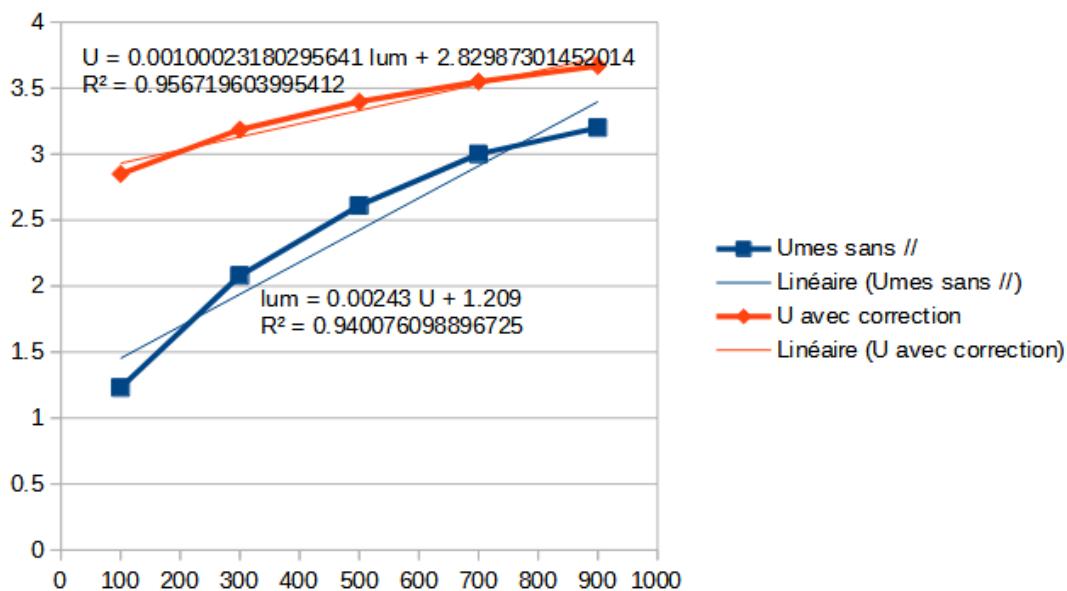
| | A | B | C | D | E | F | G | H |
|----|-----------|--------------|--------------|-------------|-------------|-------------|-------------|------------|
| 1 | Lum (Lux) | R_LDR (ohms) | Rpol en ohm* | Rmodele | ecart | ecart % | | |
| 2 | 100 | 3050 | 1000 | 3071.436582 | 21.43658161 | 0.697933395 | | |
| 3 | 300 | 1330 | 1000 | 1323.066427 | 6.933572554 | 0.524053246 | | |
| 4 | 500 | 912 | 1000 | 894.3612609 | 17.63873909 | 1.972216359 | | |
| 5 | 700 | 686 | 1000 | 691.0215804 | 5.021580427 | 0.726689378 | | |
| 6 | 900 | 564 | 1000 | 569.9302997 | 5.93029969 | 1.040530692 | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | Lum (Lux) | R_LDR (ohms) | Rpol en ohm* | Rmodele | Umes | Umodele | ecart | ecart en % |
| 10 | 100 | 3050 | 1000 | 3071.436582 | 1.23 | 1.234567901 | 0.004567901 | 0.37 |
| 11 | 300 | 1330 | 1000 | 1323.066427 | 2.08 | 2.145922747 | 0.065922747 | 3.072 |
| 12 | 500 | 912 | 1000 | 894.3612609 | 2.61 | 2.615062762 | 0.005062762 | 0.1936 |
| 13 | 700 | 686 | 1000 | 691.0215804 | 3 | 2.965599051 | 0.034400949 | 1.16 |
| 14 | 900 | 564 | 1000 | 569.9302997 | 3.2 | 3.196930946 | 0.003069054 | 0.096 |
| 15 | | | | | | | | |
| 16 | | | | Delta U | 1.97 | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |

R LDR en fonction de la luminosité



| | A | B | C | D | E | F | G | H |
|----|-----------|-------------|-------------|-------------|--------------|-------------------|-------------|------------|
| 1 | Lum (Lux) | R_LDR (ohm) | Rpol en ohm | Rmodele | Umes | Umodele | ecart | ecart en % |
| 2 | 100 | 3050 | 1000 | 3071.436582 | 1.23 | 1.2345679012346 | 0.004567901 | 0.37 |
| 3 | 300 | 1330 | 1000 | 1323.066427 | 2.08 | 2.1459227467811 | 0.065922747 | 3.072 |
| 4 | 500 | 912 | 1000 | 894.3612609 | 2.61 | 2.6150627615063 | 0.005062762 | 0.1936 |
| 5 | 700 | 686 | 1000 | 691.0215804 | 3 | 2.9655990510083 | 0.034400949 | 1.16 |
| 6 | 900 | 564 | 1000 | 569.9302997 | 3.2 | 3.1969309462916 | 0.003069054 | 0.096 |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | Lum (Lux) | Rmodele | R para | Req | Umes sans // | U avec correction | | |
| 11 | 100 | 3071.436582 | 1000 | 754.3864481 | 1.23 | 2.849999215004 | | |
| 12 | 300 | 1323.066427 | 1000 | 569.534479 | 2.08 | 3.1856579558383 | | |
| 13 | 500 | 894.3612609 | 1000 | 472.1175836 | 2.61 | 3.3964678201013 | | |
| 14 | 700 | 691.0215804 | 1000 | 408.6414913 | 3 | 3.5495191863372 | | |
| 15 | 900 | 569.9302997 | 1000 | 363.0290465 | 3.2 | 3.668300402711 | | |

Role de la résistance en //



[https://mistert.freeboxos.fr/cours/_/1_ssi_1ere SI/elec/electricité/exo pdt.pdf](https://mistert.freeboxos.fr/cours/_/1_ssi_1ere%20SI/elec/electricite/exo%20pdt.pdf)

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