

Pond diviseur de tension

Pond diviseur de tension CORRECTION

TP2 Pont diviseur

Fichiers de simulation

**Activité tinkercad**

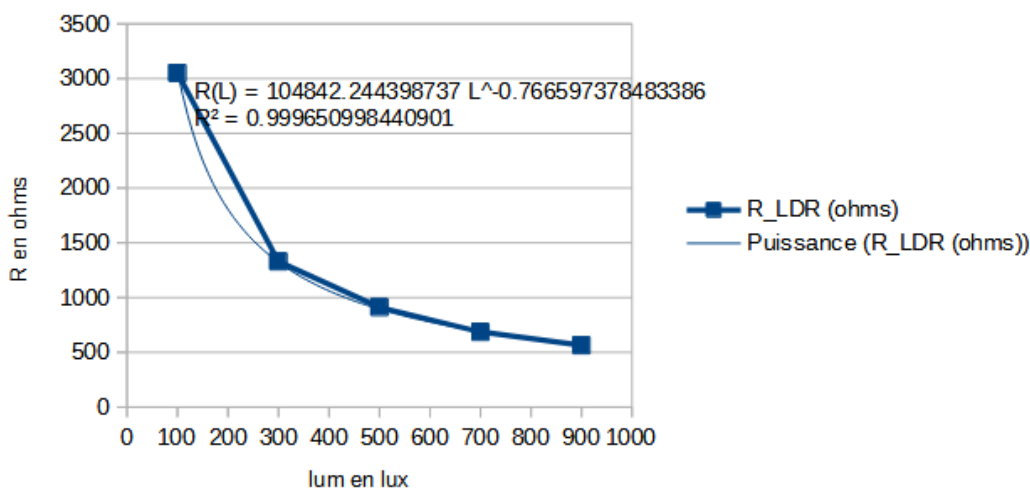
Lien de la classe: <https://www.tinkercad.com/joinclass/R9FK9NZYE>

[1SSI\\_fiche\\_eleve\\_LDR.pdf](#)

**Éléments de correction**

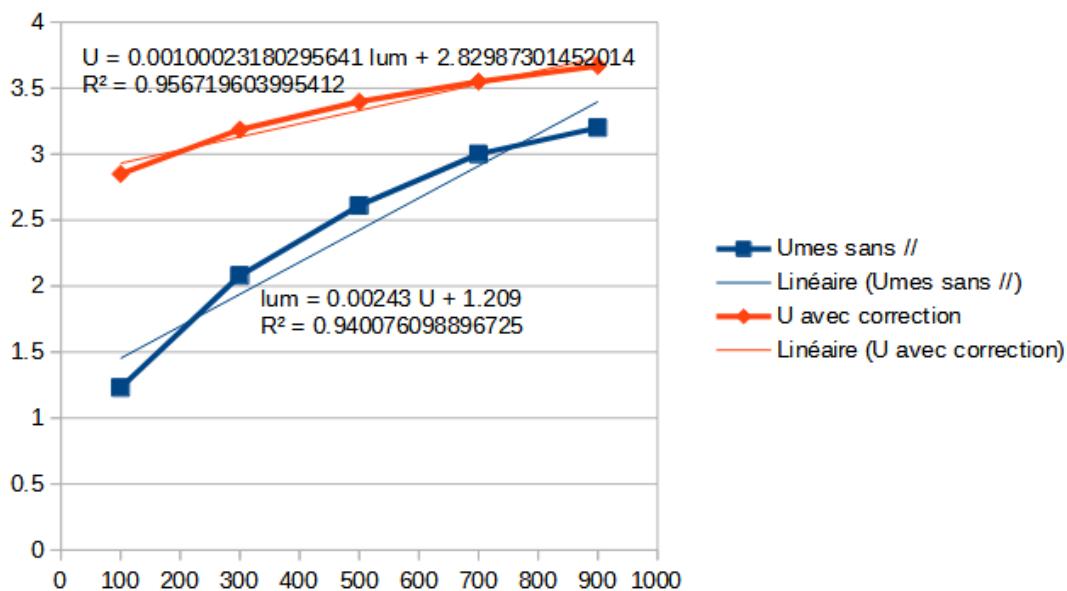
	A	B	C	D	E	F	G	H
1	Lum (Lux)	R_LDR (ohms)	Rpol en ohm*	Rmodele	ecart	ecart %		
2	100	3050	1000	3071.436582	21.43658161	0.697933395		
3	300	1330	1000	1323.066427	6.933572554	0.524053246		
4	500	912	1000	894.3612609	17.63873909	1.972216359		
5	700	686	1000	691.0215804	5.021580427	0.726689378		
6	900	564	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 //



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