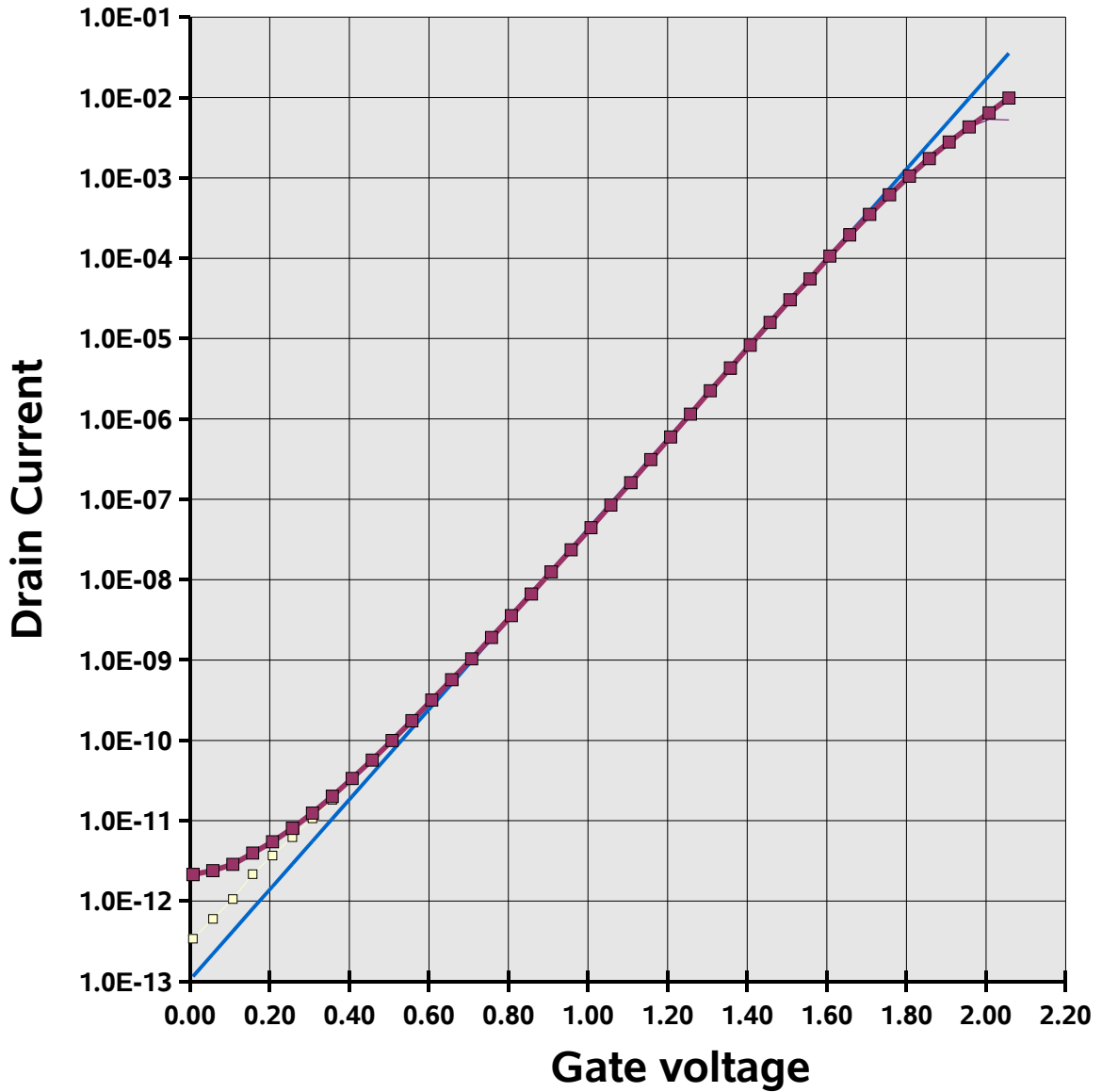


2n7000 data



Sheet1

$$I_d = I_s \exp(V_g/V_x)$$

$$I_s = 1.05E-013 \quad I_d = I_s \exp((V_g - I_d R_x)/V_x)$$

$$V_x = 0.0775 \quad R_x = 15$$

$$\text{Current Offset} = 1.80E-012$$

Offset =	Error =	Drain	Exp Drain	Modified	% error
Hp 4041A	Gate	Current	Formula	Formula	
0.00	0.01	2.14E-012	3.40E-013	1.16E-013	-94.6
0.05	0.06	2.40E-012	6.00E-013	2.20E-013	-90.8
0.10	0.11	2.86E-012	1.06E-012	4.20E-013	-85.3
0.15	0.16	3.96E-012	2.16E-012	8.00E-013	-79.8
0.20	0.21	5.48E-012	3.68E-012	1.53E-012	-72.2
0.25	0.26	8.06E-012	6.26E-012	2.91E-012	-63.9
0.30	0.31	1.25E-011	1.07E-011	5.54E-012	-55.5
0.35	0.36	2.01E-011	1.83E-011	1.06E-011	-47.4
0.40	0.41	3.37E-011	3.19E-011	2.01E-011	-40.2
0.45	0.46	5.70E-011	5.52E-011	3.84E-011	-32.6
0.50	0.51	9.95E-011	9.77E-011	7.32E-011	-26.4
0.55	0.56	1.76E-010		1.40E-010	-20.6
0.60	0.61	3.17E-010		2.66E-010	-16.1
0.65	0.66	5.70E-010		5.07E-010	-11.0
0.70	0.71	1.04E-009		9.67E-010	-6.8
0.75	0.76	1.91E-009		1.84E-009	-3.6
0.80	0.81	3.57E-009		3.51E-009	-1.6
0.85	0.86	6.65E-009		6.70E-009	0.7
0.90	0.91	1.25E-008		1.28E-008	2.2
0.95	0.96	2.36E-008		2.43E-008	3.1
1.00	1.01	4.45E-008		4.64E-008	4.3
1.05	1.06	8.47E-008		8.84E-008	4.4
1.10	1.11	1.62E-007		1.69E-007	4.3
1.15	1.16	3.12E-007		3.21E-007	3.0
1.20	1.21	5.99E-007		6.13E-007	2.3
1.25	1.26	1.15E-006		1.17E-006	1.4
1.30	1.31	2.25E-006		2.23E-006	-1.1
1.35	1.36	4.31E-006		4.24E-006	-1.6
1.40	1.41	8.29E-006		8.09E-006	-2.6
1.45	1.46	1.59E-005		1.54E-005	-3.5
1.50	1.51	3.04E-005		2.94E-005	-3.9
1.55	1.56	5.53E-005		5.60E-005	0.3
1.60	1.61	1.07E-004		1.07E-004	-1.8
1.65	1.66	1.96E-004		2.04E-004	0.2
1.70	1.71	3.52E-004		3.88E-004	3.0
1.75	1.76	6.16E-004		7.40E-004	6.6
1.80	1.81	1.06E-003		1.41E-003	9.0
1.85	1.86	1.74E-003		2.69E-003	10.3
1.90	1.91	2.79E-003		5.13E-003	7.1
1.95	1.96	4.30E-003		9.77E-003	-1.1
2.00	2.01	6.44E-003		1.86E-002	-16.8
2.05	2.06	9.85E-003		3.55E-002	-46.4