				Pr	aktikumsversuch "Best	immung der elektrisc	hen Elementa	rladung nac	h Millikan"					
Ţ	Wert	Einheit	Beschreibung											T
	16.09.2025		Datum der Messung			Namen der Studentinnen:	Finn Zeumer, Annika Künstle							
Ť	10.00.2020		Spannung des			ramen der Stadentimen.	Thinks Transic							
t	500	V	Kondensators U	+						Alles rote ist zu ändern, der Rest				╁
1	1,01E+05	Pa	Luftdruck p				_			wird automatisch berechnet.				4
t	23,0	oC	Zimmertemperatur T Abstand der	_			C							+
1	6,00E-03		Kondensatorplatten d											+
t	5,00E-05 3.14159		1 Skt Zahl π	_		C1 =	1,9987E-10 9.5334E-09	VAs (s/m)**1.5 ms						+
Ť			Benutzte											
ł	1,00E-19	As	Ladungseinheit q0 Viskosität der Luft η0	_		ρ = ρ1-ρ2 =	8,7091E+02	kg/m³						+
1	1,81E-05		(unkorrigiert)			b =	7,7800E-03	Pa m						4
ł	8,722E+02 1,29E+00	kg/m³ kg/m³	Dichte des Öls ρ1 Dichte der Luft ρ2	-										╫
ļ		m/s²	Erdbeschleunigung g											Ŧ
t			Oberere Grenze der											+
l			Ladung für einfach											
+	2,400		geladene Tröpfchen Mittelwert Q1m der					1	Korrekturfaktor für η					+
l			einfach mit Q1						Ladung der gemessenen					
ł	1,577	•	geladenen Tröpfchen					Q	Tröpfchen Ladung der einfach geladenen					+
l								Q1						
l	1,568		Mittelwert Q/n für Tröpfchen mit n<6					_	nächste ganze Zahl von Q/Q1					
ŀ			Zahl der Tröpfchen mit						Hacriste garize Zarii vori Q/Q/1					†
ŀ	60		n<6 Standardabweichung	+							-			+
ļ	0,097	•	einer Einzelmessung											1
l	0,012		Standardabweichung des Mittelwertes									l		
Ť			Mittelwert von f für											T
ł	0,9091	<u> </u>	Tröpfchen mit n<6											\pm
	Sinken [Skt]	t1 [s]	Steigen ti	2 v1 s] [m/s]	v2 [m/s]	v1+v2 [m/s]	R0 [m]	1	Q	Q1	Q/Q1m	n	Q/n (n<6)	le.
l	ĮSKIJ	.,											(n<0)	(n
ŀ	10			3,42 0,0001 3,46 0,0001			1,01575E-06 1,03954E-06	0,929321917	9,47887073 9,855807086		6,00976 6,24875	6		+
	10	4,557		3,52 0,0001					9,451344178		5,99231	6		†
	10	4,507		3,687 0,0001			1,02841E-06	0,930130855	9,312106068		5,90403	6	3	₽
	10 10	4,623 8,277	10 3	3,865 0,0001 3,098 6,0408			1,01542E-06 7,5888E-07		8,845954624 3,281574003		5,60848 2,08057	2	1,640787002	2 (
	10	8,883	10 8	3,499 5,6287			7,32537E-07	0,904602854	2,970432621		1,8833	2	1,485216311	1
	10 10			3,206 5,878 7,955 5,9157			7,48595E-07 7,50982E-07	0,906457742	3,166434748 3,238957306		2,00757 2,05355	2		
	10	8,888	10	8,71 5,6255	6E-05 5,74053E-0	5 0,000113661	7,32331E-07	0,904578571	2,931898185		1,85887	2	1,465949092	2
ŀ	10			4,997 9,0399 5,122 9,2971			9,28341E-07 9,41454E-07	0,92317812	6,420955286 6,526563093		4,07099 4,13795	4	1,605238822	
ľ	10	5,216	10 4	1,993 9,5858	9E-05 0,0001001	4 0,000195999	9,55962E-07	0,925231798	6,827024173		4,32845	4	1,706756043	3 0
ŀ	10 10		10 5	5,099 8,5881 4,52 9,4179			9,04843E-07 9,47552E-07		6,026142161 7,063758337		3,82068 4,47854	4		
ļ	10	4,919	10 14	1,758 0,0001	01647 3,38799E-0	5 0,000135527	9,84399E-07	0,927234489	4,876866454		3,09202	3	1,625622151	1 0
ŀ	10	5,167 5,256		4,795 9,676 15,53 9,5129			9,60484E-07 9,52317E-07		4,571691624 4,416174566		2,89853	3	1,523897208 1,472058189	
L	10	5,08	10 15	5,749 9,8425	2E-05 3,1748E-0	5 0,000130173	9,68674E-07	0,926140505	4,601246909		2,91727	3	1,53374897	7 0
ŀ	10 10	4,877 7,506	10 14 10 8	4,061 0,0001 3,871 6,6613		5 0,000138081 5 0,000122977	9,88628E-07 7,96902E-07	0,927523239	4,992479868 3,492328777		3,16532 2,2142	2	1,664159956 1,746164388	6 C
ļ	10	7,71	10 9	9,244 6,4850	BE-05 5,40891E-0	5 0,00011894	7,86289E-07	0,910540953	3,326750663			2		
	10 10		10 10	0,101 6,3043							2,10922		1,663375332	
	10	7,948	10 8	3,929 6,5061	BE-05 5,59973E-0	5 0,000121059			3,097764334 3,392264594		1,96403	2 2	1,548882167	7 (
	10 10		10 9	9,578 6,2908	9E-05 5,2203E-0	5 0,000115112	7,75257E-07 7,87567E-07 7,74427E-07	0,910673141 0,909294981	3,392264594 3,164599315		1,96403 2,15075 2,00641	2	1,548882167 1,696132297 1,582299657	7 (7 (7 (
	10		10 9 10 4	9,578 6,2908 4,006 7,5176	9E-05 5,2203E-0 7E-05 0,00012481	5 0,000115112 3 0,000199989	7,75257E-07 7,87567E-07 7,74427E-07 8,46576E-07	0,910673141 0,909294981 0,916378851	3,392264594 3,164599315 6,080601437		1,96403 2,15075 2,00641 3,8552	2	2 1,548882167 2 1,696132297 2 1,582299657 1 1,520150359	7 (7 (9 (
		6,252 6,287	10 9 10 4 10 10 4	9,578 6,2908 4,006 7,5176 4,22 7,9974 4,069 7,9529	9E-05 5,2203E-0 7E-05 0,00012481 4E-05 0,00011848 2E-05 0,0001228	5 0,000115112 3 0,000199989 3 0,000198458 8 0,00020241	7,75257E-07 7,87567E-07 7,74427E-07 8,46576E-07 8,73172E-07 8,70738E-07	0,910673141 0,909294981 0,916378851 0,918718872 0,91851019	3,392264594 3,164599315 6,080601437 6,247453571 6,351926754		1,96403 2,15075 2,00641 3,8552 3,96099 4,02723	2 2 4 4 4	1,548882167 1,696132297 1,582299657 1,520150359 1,561863393 1,587981688	7 7 7 9
	10 10	6,252 6,287 6,419	10 9 10 4 10 10 10 4 10 4	9,578 6,2908 4,006 7,5176 4,22 7,9974 4,069 7,9529 4,045 7,7893	9E-05 5,2203E-0 7E-05 0,00012481 4E-05 0,000118482 2E-05 0,0001228 8E-05 0,00012360	5 0,000115112 3 0,000199989 3 0,000198458 8 0,00020241 9 0,000201503	7,75257E-07 7,87567E-07 7,74427E-07 8,46576E-07 8,73172E-07 8,70738E-07 8,61739E-07	0,910673141 0,909294981 0,916378851 0,918718872 0,91851019 0,91772918	3,392264594 3,164599315 6,080601437 6,247453571 6,351926754 6,250148048		1,96403 2,15075 2,00641 3,8552 3,96099 4,02723 3,9627	2 2 4 4	1,548882167 1,696132297 1,582299657 1,520150359 1,561863393 1,587981688 1,562537012	7 7 7 9 3 8
	10 10	6,252 6,287 6,419 7,151 4,597	10 9 10 4 10 4 10 4 10 4 10 4 10 7	9,578 6,2908 4,006 7,5176 4,22 7,9974 4,069 7,9529 4,045 7,7893 4,193 6,9920 7,577 0,0001	9E-05 5.2203E-0 77E-05 0.00012481 4E-05 0.00011848 2E-05 0.0001238 8E-05 0.0001238 8E-05 0.0001392 8B-05 0.00011924 8767 6.59892E-0	5 0,000115112 3 0,000199989 3 0,000199459 8 0,00020241 9 0,000201503 6 0,000189167 5 0,000174756	7,75257E-07 7,87567E-07 7,74427E-07 8,46576E-07 8,73172E-07 8,70738E-07 8,61739E-07 1,01829E-06	0,910673141 0,909294981 0,916378851 0,918718872 0,91871019 0,91772918 0,913559399 0,929485645	3,392264594 3,164599315 6,080601437 6,247453571 6,351926754 6,250148048 5,521241273 6,528728928		1,96403 2,15075 2,00641 3,8552 3,96099 4,02723 3,9627 3,50056 4,13932	2 2 4 4 4 4 4 4	2 1,548882167 2 1,696132297 2 1,582299657 3 1,520150359 4 1,561863393 4 1,587981688 5 1,562537012 6 1,380310318 6 1,632182232	7 7 9 3 8 2 8
	10	6,252 6,287 6,419 7,151 4,597 4,659	10 9 10 4 10 10 4 10 4 10 4 10 7 10 7	9,578 6,2908 4,006 7,5176 4,22 7,9974 4,069 7,9529 4,045 7,7893 4,1193 6,9920	BE-05 5.2203E-0 TF-05 0.00012481 4E-05 0.00011848 2E-05 0.00012380 E-05 0.00012380 3E-05 0.00011938 3E-05 0.00011939 3E-05 0.00011930 3E-05 0.00011930	5 0,000115112 3 0,00019998 3 0,000199458 8 0,00020241 9 0,000201503 6 0,000189167 5 0,000174756	7,75257E-07 7,87567E-07 7,74427E-07 8,46576E-07 8,73172E-07 8,70738E-07 8,61739E-07 8,16443E-07	0,910673141 0,909294981 0,916378851 0,918718872 0,9185103 0,91772918 0,913559399 0,929485645 0,929045349	3,392264594 3,164599315 6,08060137 6,247453571 6,351926754 6,250148948 5,521241273 6,528728928 6,340253437		1,96403 2,15075 2,00641 3,8552 3,96099 4,02723 3,9627 3,50056	2 2 4 4 4 4 4	2 1,5488821677 2 1,69613229796577 2 1,5822996577 3 1,520150359 3 1,561863393 4 1,587981688 4 1,5625370122 5 1,380310318 1,6321822323 1,585063359	7 7 9 3 8 2 8 2
	10 10 10 10 10	6,252 6,287 6,419 7,151 4,597 4,659 4,773 4,663	10 9 10 4 10 10 4 10 10 4 10 10 4 10 7 10 7	9.578 6.2908 4.006 7,5176 4.22 7,9974 4.069 7,9529 1,045 7,7893 1,193 6,9920 7,577 0,0001 7,855 0,0001 7,719 0,0001 9,916 0,0001	BE-05 5,2208E-0 FE-05 0,00012481 4E-05 0,00012481 EE-05 0,0001228 BE-05 0,0001228 BE-05 0,0001289 BE-05 0,0001892-0 FE-05 0,000189-0 FE-05 0,000189	5 0,000115112 3 0,000199988 8 0,00020241 9 0,00020261 6 0,000189167 5 0,000170973 5 0,000170973 5 0,000170973 5 0,000170973	7.75257E-07 7.87567E-07 7.74427E-07 8.46576E-07 8.70738E-07 8.70738E-07 8.61739E-07 1.01829E-06 1.01149E-06 9.99341E-07 1.01108E-06	0,910673141 0,909294981 0,916378851 0,918718872 0,91851019 0,91772918 0,913559399 0,929485645 0,929045349 0,928244423 0,929017058	3,392264594 3,31645991 6,090601437 6,247453571 6,351926754 6,250148048 5,5212475 6,52872893 6,52872893 6,30255337 6,20325075 6,315855076		1,96403 2,15075 2,00641 3,8552 3,96099 4,02723 3,9627 3,50056 4,13932 4,01983 3,93295 4,00423	2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2 1,5488821677 2 1,69613229775 2 1,5822996577 1,520150359 1,561863393 1,587981683393 1,587981683393 1,582537012 1,38031031823232 1,585063359 1,5508066925 1,5789126411	7 7 7 9 3 8 2 8 2 9
	10 10 10 10 10 10 10	6,252 6,287 6,419 7,151 4,597 4,659 4,773 4,663	10 9 9 10 10 4 10 10 7 10 7 10 7 10 7 10 7 10	9.578 6.2908 4.006 7.5176 4.422 7.9974 1,069 7.9529 1,045 7.7853 1,193 6.9920 7.577 0,0001 7,885 0,0001 7,916 0,0001 7,916 0,0001 7,911 0,0001	9E-05 5.2208E-0 5.2208E-0 9.00012481 4E-05 0.00012481 4E-05 0.00011848 4E-05 0.00011849 4E-05 0.00012360 5E-05 0.00012360 5E-05 0.00012360 5E-05 0.000119360 5E-05 0.000119360 5E-05 0.00011936 5E-05 0.00011936 5E-05 0.00011936 5E-05 0.00012360 5	5 0,000115112 3 0,0001998458 8 0,00029949 9 0,0002021503 6 0,000189167 5 0,00017973 5 0,000170973 5 0,000170973 5 0,00017035 5 0,00017035 5 0,0001693	7.75257E-07 7.87567E-07 7.74427E-07 8.46576E-07 8.70738E-07 8.70738E-07 8.61739E-07 1.01829E-06 1.01149E-06 9.99341E-07	0,910673141 0,909294981 0,916378851 0,918718872 0,91851019 0,91772918 0,913559399 0,929485645 0,929045349	3,392264594 3,16459315 6,080601437 6,247453571 6,2319267 6,250148045 5,52124127 6,528728928 6,340253437 6,52022677		1,96403 2,15075 2,00641 3,8552 3,96099 4,02723 3,9627 3,50056 4,13932 4,01983 3,93295	2 2 4 4 4 4 4 4 4 4 4 4	2 1,54882167. 1,6961322976. 1,5822996577. 1,520150359. 1,56186339. 1,562537012. 1,3803103181. 1,3803103181. 1,58263359. 1,550806692. 1,578912641. 1,508961208.	7 7 7 9 3 8 2 8 2 9 2
	10 10 10 10 10 10 10 10	6,252 6,287 6,419 7,151 4,559 4,773 4,659 4,773 4,663 5,227	10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	1,578 6,200 1,006 7,5176 4,22 7,9974 1,069 7,5526 1,045 7,7893 1,193 6,9920 7,577 0,0001 1,855 0,0001 1,719 0,0001 1,911 0,0001 1,911 0,0001 7,93 8,0295	BE-05 5.2203E-0 TF-0-5 0,000124B1 EE-05 0,000124B1 EE-05 0,000124B1 EE-05 0,000123B1 EE-05 0,000123B1 EE-05 0,000123B1 EE-05 0,0001123B1 EE-05 0,00017E-05 E	5 0,000115112 3 0,000199898 8 0,00020241 9 0,00020241 5 0,00017973 5 0,00017973 5 0,00017973 5 0,000170373 5 0,0001693 5 0,00017033 5 0,00016953 5 0,00016953 5 0,00016953 5 0,00016953	7.75257E-07 7.87567E-07 7.74427E-07 8.46576E-07 8.76372E-07 8.70738E-07 8.70738E-07 1.01829E-06 1.01149E-06 9.99341E-07 1.01106E-06 9.99366E-07 8.58666E-07 8.58666E-07	0,910673141 0,909294981 0,918378851 0,91871087 0,91851019 0,91772918 0,913559399 0,929485645 0,929045349 0,92927675058 0,927675058 0,918868348 0,917459209	3.39224594 3.16459315 6.806001437 6.247453571 6.351926754 6.250148048 5.521241273 6.528728028 6.340233437 6.20322677 6.315650564 6.20322677 4.22723478 4.22723478		1,96403 2,15075 2,00641 3,8552 3,96099 4,02723 3,9627 3,50056 4,13932 4,01983 3,93295 4,00423 3,81922 2,86748 2,72466	2 2 4 4 4 4 4 4 4 4 4 4 4 3 3	2 1,54882167 1,696132297 1,582299657 1,520150359 1,561863393 1,587981688 1,562537012 1,380310318 1,632182232 1,58506692 1,579912641 1,505961208 1,579912641	77 77 77 99 33 88 22 99 22 11 88 33 22
	10 10 10 10 10 10 10 10 10	6,252 6,287 6,419 7,151 4,597 4,653 4,773 4,663 4,855 6,227 6,465 6,195	10 9 10 4 10 10 4 10 4 10 7 10 7 10 7 10 7 10 7 10 7 10 7 10 7	1,578 6,200 1,006 7,5176 4,22 7,9974 1,069 7,9529 1,045 7,7833 1,193 6,9920 1,045 7,7833 1,193 6,9920 1,0001 1,719 0,0001 1,719 0,0001	BE-05 5.2203E-0 F.Z203E-0 F.Z203E-0 F.ZE-05 0.00012481 4E-05 0.00013481 4E-05 0.00012480 5E-05 0.00012360 5E-05 0.00012360 5E-05 0.000112360 5E-05 0.000112360 5E-05 0.000112360 77319 6.36537E-0 F.Z27 6.58982E-0 77319 6.36537E-0 77319 6.36537E-0 F.Z27 6.3657E-0 F.Z27 6.3657E-0 F.Z27 6.3657E-0 F.Z27 6.3657E-0 F.Z27 6.3657E-0 F.Z2	5 0,000115112 3 0,000199458 8 0,00020941 9 0,0002021503 6 0,000174755 5 0,000174755 5 0,000176953 5 0,00016953 5 0,00016953 5 0,00016953 5 0,00016953 5 0,00016953 5 0,00016953 5 0,0001339105 5 0,0001339105	7.75257E-07 7.75427E-07 7.75427E-07 8.46576E-07 8.761726-07 8.70738E-07 8.61739E-07 1.01829E-06 1.01149E-06 9.99341E-07 1.01106E-06 9.90366E-07 8.74923E-07 8.74923E-07 8.7718E-07	0,910673141 0,909294981 0,916378851 0,916378851 0,918718872 0,91851019 0,91772918 0,913559399 0,92945545 0,92945349 0,929617058 0,929675058 0,929675058 0,91866348	3.392246594 3.164699315 6.080601437 6.247453571 6.351926754 6.250146084 5.521241273 6.20226875 6.20226876 6.2022677 6.315505046 6.2022477 6.427274697 6.427274769 4.227463795 4.227463795		1,96403 2,15075 2,00641 3,8552 3,96099 4,02723 3,9627 3,50056 4,13932 4,01983 3,93295 4,00423 3,81922 2,86748	2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2 1,54882167 1,696132297 1,582299657 1,520150359 1,561863393 1,587981688 1,5825370121 1,380310318 1,632182232 1,578912641 1,50561208 1,507574493 1,507574493 1,43791564	7 7 7 7 7 9 3 3 8 8 2 2 1 1 8 8 3 2 2 4
	10 100 100 100 100 100 100 100 100 100	6,252 6,287 6,419 7,151 4,597 4,659 4,773 4,663 6,227 6,465 6,195 6,461	10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	1,578 6,200 1,006 7,5176 4,22 7,9974 4,22 7,9974 1,069 7,9529 1,045 7,7893 1,193 6,9920 1,007 1,0001 1,719 0,0001 1,719	BE-05 5.2203E-05 TZ-05 0.00012481 EE-05 0.00012481 EE-05 0.00012481 EE-05 0.00012360 BE-05 0.00012360 BE-05 0.00012360 BE-05 0.000112360	5 0,000115112 3 0,0001998458 8 0,00020941 9 0,000201503 6 0,000189155 5 0,000174755 5 0,000176953 5 0,00016953 5 0,00016953 5 0,00016953 5 0,00016953 5 0,000139106 5 0,000139106 5 0,000139106 5 0,000139106 5 0,000139106	7.75257E-07 7.75257E-07 7.74427E-07 8.7657E-07 8.76172E-07 8.76172E-07 8.76172E-07 8.76172E-07 8.761739E-07 8.761739E-07 8.761739E-07 1.01129E-06 9.99381E-07 8.74923E-07 8.74923E-07 8.75933E-07 8.765931E-07	0.910673141 0.909294981 0.916378851 0.918718872 0.918718872 0.91851019 0.91772918 0.92945654 0.929045349 0.928244423 0.928244423 0.92824493 0.92901765058 0.929017900 0.918868348 0.91748294 0.91748294 0.91849334	3.39224594 3.164599315 6.080601437 6.247453571 6.351926754 6.250140045 5.521241273 6.54276252 6.540223437 6.20322677 6.318505644 4.247445795 4.22724376 4.23724576 4.337245464 4.33734376 4.33734376 4.33734376 4.33734376 4.33734376 4.33734376 4.33734376 4.33734376 4.33734376 4.33734376		1,96403 2,15075 2,00641 3,8552 3,96099 4,02723 3,9627 3,50056 4,13932 4,01983 3,93295 4,0423 3,81922 2,86748 2,72466 2,77241 2,73709	2 2 4 4 4 4 4 4 4 4 4 4 3 3	2 1,54882167 1,696132297 1,582299657 1,520150359 1,561663393 1,58781688 1,582162359 1,582162359 1,582162359 1,582162359 1,582162359 1,582162359 1,578312641 1,505961208 1,507574493 1,4324759 1,4424759 1,4424759 1,4424759 1,4424759 1,444759 1,444759 1,444759 1,444759 1,444759 1,444759 1,444759	7 7 7 7 9 3 3 8 8 2 2 9 2 1 1 8 8 3 3 2 4 9 9
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	100 100 100 100 100 100 100 100 100 100	6,252 6,287 6,419 7,151 4,597 4,699 4,773 4,683 4,835 6,227 6,465 6,195 6,461 6,29 13,914	10 9 10 14 10 10 10 14 10 17 10 17 10 17 10 17 10 17 10 17 10 18 10 10 18	1,578 6,200 1,006 7,5176 4,22 7,9974 4,22 7,9974 1,069 7,9572 1,045 7,7852 1,045 7,7852 1,045 7,7852 1,040 1,000 1,779 0,000 1,779 0,000 1,779 0,000 1,799 0,000	DE-05	5 0,000115112 3 0,0001998458 8 0,00020941 9 0,000201503 6 0,000189155 5 0,0001197475 5 0,000119915 5 0,000119915	7,7525TE-07 7,8756TE-07 7,7442TE-07 7,7442TE-07 8,73172E-07 8,73172E-07 8,61739E-07 1,01829E-05 1,01149E-06 9,93941E-07 1,01108E-06 9,93941E-07 8,74922B-07 8,74922B-07 8,75931E-07 8,75931E-07 8,75931E-07 5,85358E-07 5,9888E-07	0.910673141 0.9062941 0.916378851 0.918378872 0.91851019 0.91772918 0.91357991 0.929485649 0.929485649 0.929485649 0.92947038 0	3.39224594 3.16459315 6.080601437 6.247453571 6.351926754 6.259148048 5.521241273 6.529148048 5.521241273 6.529162804 6.0322677 6.316505064 6.03232473 4.22723478 4.372774692 4.33543786 4.31765477 1.51327855 1.61008832 1.54001127 1.54001127	1,61008832 1,546011217	1,96403 2,15075 2,00641 3,8552 3,96099 4,02723 3,9627 3,50056 4,13932 4,01983 3,93295 4,00423 3,81922 2,86748 2,72466 2,77241 2,73709 0,95941 1,02082 0,9802	2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 1 1 1 1	2 1,54882105 1,696132297 1,82299657 1,520150359 1,561863393 1,561863393 1,561863393 1,582537012 1,38021305 1,38021305 1,5825803358 1,58060692 1,578312841 1,505912493 1,457591584 1,444514589 1,444514589 1,43227835 1,61008832 1,61008832	7 7 7 7 9 9 3 8 8 2 2 1 1 8 8 3 2 2 4 4 9 9 9 6 5 5 7
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