

E F U F S N J O B U J P O I P G I D V S S F O U I I
D I B S B D U F S J T U J D T I P G I 3 H I I U T O I

L b u b s c z o b i t c p u b ², J a r o s l a w J e n e s z l b ³, M a r c i n N a b i a t e k ³, M i c h a ł S z o t a ^{3 1}

²G b d v r e z i p g n f d i b o j d h n f o h j o f f s j o h i b o e i d p n q v u f s t d j f o d f i d c f t u p d i p x b i v o j w f s t j u z i p g u f d i o p r n h z i

³G b d v r e z i p g n b u f s j b n i l q s p d f t t j o h i u f d i o p r n h z i b o e i b q q n f e i q i z t j d t i n b u f s j b n i f o h j o f f s j o h i j o t u w u f i d c f t u p d i p x b i v o j w f s t j u z i p g u f d i o p r n h z i q p r n o e i l

I b u b s c z o b i t c p u b A j n / q d c / q n l h o s p t r o x / k f e s z l b A p 3 / q n l o n b s d f r m m x q / q n l o n t c p u b A n j n / q d c / A c f t u w q n

B e t u s b u d u / U i j t l q b q f s i q s f t f o u l u i f l e f t v m l p g l j o w f t u j h b u j p o t l p g l b l t u b u f . p g . u i f l b s u i j h i .
u f n q f s b u s f i d f s b n j d l t v q f s d p o e v d u j o h l u b q f l p g l u f i t G I 2 3 1 8 1 t t f s j f t / A U i f l t w e z i p d v t f t l p o l u i f l
d v s s f o u b o e l w p m b h f l d i b s d u f s j t u d t - f y b n j o b u j p o l p g l u f l n j d s p t u s v d u s f l b o e l b o b r z t j l p g l u f l
d i f n j d h n d p n q p t j u p o l j o l t v q f s d p o e v d u j o h l u b q f t l p g l u f l t G I t f s j f t / A J o l p s e f s u p l n f b t v s f l u i f l
d v s s f o u q b s b n f u f e t - l b l n f b t v s j o h i t z t u f n l x b t l e f t j h o f e l u p j o w f t u j h b u f l t f d u j p o t l p g l u f l u b q f t l b u
u f l u f n q f s b u s f l p g l n r v j e l o j u s p h o / A U i f l t z t u f n l j t l q p x f s f e l x j u i l b l e j s f d u d v s s f o u p g l q b s b n f .
u f s t l u > l l 2 8 8 1 1 B l b o e i v l > l l 2 8 1 W / A n f b t v s f n f o u l p g l u f l d e j u j d b n d v s s f o u x f s f l u b l f o l e z i n f b o t l
p g l e f u f s n j o b u j p o l p g l u f l e f d r p o f j o l w p m b h f l b n p o h l u f l n f b t v s f n f o u t f d u j p o l p g l u f l u b q f l x j u i
b o l b d d v s b d z i p g l 2 o W / A B o b r z t j l p g l u f l d i f n j d b n d p n q p t j u p o l x b t l d b s j f e l p v e z i v t j o h i b l t d b o .
o j o h n j d s p t d p q f l x i j d i l g f b u s f t l b l d i f n j d b n d p n q p t j u p o l n j d s p b o b r z t f s l F E Y / A U i f l q b q f s
q s f t f o u l n j d s p t d p q d l j n b h f t l x i j d i l b s f l b l e f t v m l p g l u f l f y b n j o b u j p o l p g l u f l t u s v d u s f t l e z l
n f b o t l p g l b i n h i u n j d s p t d p q f l b o e l t d b o o j o h n j d s p t d p q f / A U i f l n f u i p e l p g l q s f q b s b u j p o l p g l u f l
t v q f s d p o e v d u j o h l u b q f t l p s t p m f s j o h i b o e l u i f n f u i p e l u f l t f n d u j o h l p g l t p m f s l x f s f l b n k p l q s f .
t f o u f e / l

J o u s p e v d u j p o l

T v q f s d p o e v d u j u z i n f b o t l b l t u b u f l p g l n b u f s i x l f o l b i t v q f s d p o e v d u j o h n b u f s j b n e i f .
n p x l d s j u d b n u f n q f s b u s f l U , l d p o e v d u l f n d u s j d u z i b u f i s p l s f t j t u b o d f / A S f t i t u j u z i b u
s p n l u f n q f s b u s f l J 3 1 i D 4 b n p v o u t l u p - l s f t q f d u j u z i - l g p s i n f u b n t : l B h i 2 / 7 3 1 2 1 - ³ 2 n - l
g p s l t f n j d p o e v d u p s t l f / h / A o . u z q f l t j n d p o ; l 8 / 8 1 - l 2 1 - ⁵ 2 n - l g p s l j o t v n u p s t l f / h / A h n t t ; l
2 1 ^{2 1} 2 1 ^{2 5} 2 n \ 2 - l 3 ^ M

G p s l t p n f l n b u f s j b n - l u f l u s b o t j u p o l j o u p l b l t v q f s d p o e v d u j o h l t u b u f l j t l q p t t j e n l b u
i j h i f s l q s t t t v s f t / A T v q f s d p o e v d u p s t l j o d n e f l b l v o s j f u z i p g l d i f n j d b n f n n f o u t - l d i f n j .
d h n d p n q p v o e t - l n f u b n b n p z t - l d f s b n j d i l p s l p s h b o j d i d p n q p v o e t / A T v q f s d p o e v d u j o h
q s p q f s j f t l b u n p x l u f n q f s b u s f t l b s f l e f n p o t u s b u r e l e z i f / h / A d b s e p o l j o l u f l g p s n l p g l d b s .
e p o l o b o p w e f t l p s e p q f e l g v m f s f o t l \ 4 ^ M

U i f l i q j p o f f s j o l u f l e p n b j o l p g l t v q f s d p o e v d u j u z i x b t l i l f j o l f i l b n f s p o h i . P o o f t - l
x i p l x b t l u f l i g s t u l p c u b j o l n r v j a l l n j v n / A U i j t l e s f b l u s p v h i l n f b e l u p l u f l e j t d p w s z l
p g l u f l e f n u j p o t i j q t l e f u x f f o l u f l f n d u s j d b n d v s s f o u j o l n f u b n t b o e l u f n q f s b u s f l / A

X i j n l u t t u j o h l u f l i q v s t l u g s p n l u f l u f o l b w b j n e n l f n n f o u t l / A n f s d v s z - l i f l g p v o e l
u b u j o t u f b e l p g l b i n p p u l e f d r p o f j o l f n d u s j d b n e s t j t u b o d f l x j u l b l e s f e v d u j p o l j o l u f n q f s b .

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V oym 3117-l ju l belcfel bttvn fel u buldvqsdldpn qpvoatl bsfl u fl pomz l jh l . ufn qfshuwsl tvqfspdpevdupst/ Jol 3117-l jefll ptpopl ejtdp wsfel u fl gjetudpn . qpvoel x l jdl dsfbufel u fl ttdpoel uzqf lpg l jh l . ufn qfshuwsl tvqfspdpevdupst: l 6f. qojdqefl/ U l ffln bufsjbnluzqjdbmzlvofshp l tsvdwsbnusbotjupotl\ . 24^M

2/AS ftfbsdi ln ful petlboeln bufsjbnk

U l fljowftujhbujpotlx fslfdbssjfelpvulgsl jh l . ufn qfshuwsl tvqfspdpevdujohlubq fl 3N l l UTD lJ3²¹H fofsbujpoll jh l Ufn qfshuwsl tvqfspdpevdupst*pgl u fl T 61231611 tfsjftl)T 6ln fbotltvqfspdpevdupstlx ju l jspolubl johlqbsulolu flbqqfbsbndflpgltvqfs . dpevdujohlqi bttf-lx l fsfbt123161ln fbotlx jaulpgl23ln n lboelud jdl ofttlpgl/6ln n *A U l flubqfllbsflfnpwfsfel x ju l u fin bovgbdwrsfsl tqfdjgdubujpot-lx l jdl ldpobuljo . gpn sbujpolbecpvud fl gpmx johlqbsn fufst;l dsjgdbrkdvsstouk₂ lbulu flufn qfshuwslpgl rrvjelojushfal3881L -ljolblwajgsn l gfm *ln jojn brwbnwfl35118 l l 21C -lubqflx jaul 23ln n -lubqfl u jdl ofttl1/66ln n -lu jdl ofttlpgl)wfsldpbulohl3l_μn l l 1/6l_μn -lebtfl n bufsjbnlbnmpz lpgl0 jboelN plboelbnmpzjohlufn fout-l dpn n fsljbnmltpnmlbtl bturmpz-lebtl n bufsjbnk bhofudlqspqsfjfl: lopo . n bhofud-lsfjtujwuzlpgld flcbtl n bufsj . bml2361_μΩdn AD pn n fsljbnmtfdupotlpgld flubqfllbsflvqlupl2111ln lmpoh/ Jolpse fslupl dbsszlpvud fljowftujhbujpot-lbl21 . n fustlmpohlubqflttfdupolx btlqvsl btfel/

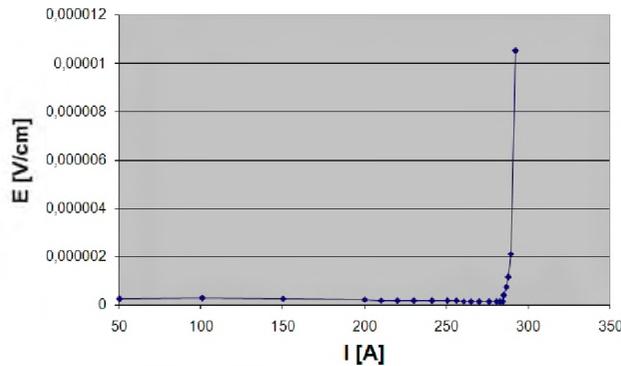
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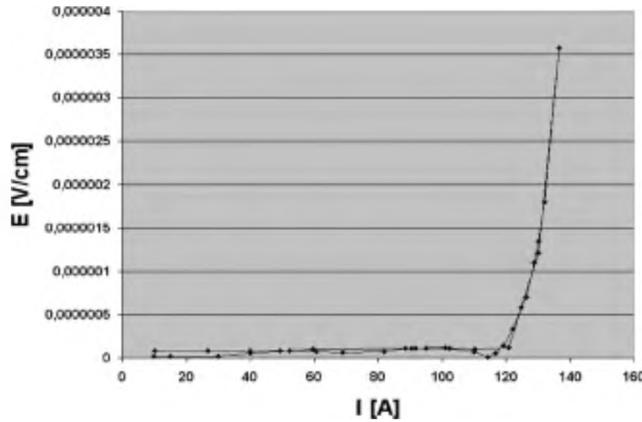
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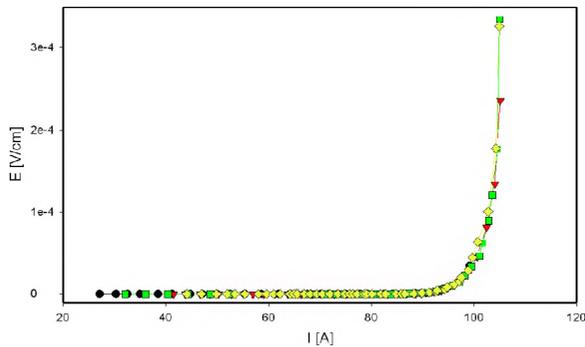
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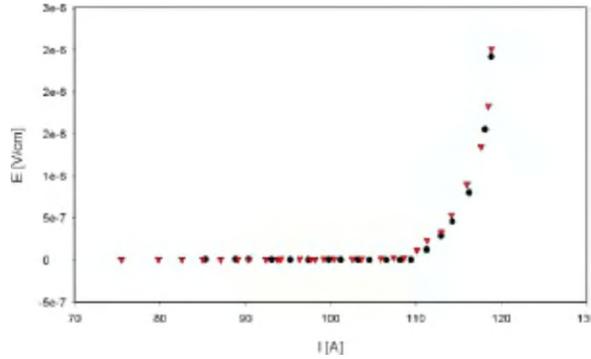


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- \2^ I prnpebzIE /IS ftojdI IS /IX bnfslK/IQpatubx zlg{zI j-U/A/-IX O IQX O -IX bst{bx bI3116A
- \3^ I wq;OK x x /vqfspdpevdups/ps/A
- \4^ T{pudIN /AT vqfspdpevdugohIn bufsjbnh-ldprndujwIn pophsbqi jd-lyo;^N bufsjbnhF ohjoffsjohIn buf. sjbntboeIF yqnsbujpolqspcnIn tIjoIN pafsoIN bufsjbnhF ohjoffsjoh-ID {ftupdi px bI311: -I: 5.225A
- \5^ Qbrnbl S/A N poprjuzdCofI obeqs{fx peojI jI x ztpl pufn qfswspx f/A N pefndI n bl sptI pppx fII jI{btuptpx bojb-IX zebx ojdux pIQpqrndI oji jIT{d{fdjstI jfkIT{d{fdjoI3118A
- \6^ Juszczyk S., Gogolowicz M., Wlasnos{IIn bhofuzdCofI obeqs{fx peojI px Ix ztpl pufn qfswspx. x zdi -IX zebx ojdux pIV oJx fstzuruwI SraqI jfhp-IL bupx jdfI2: : 4A
- \7^ MfepobnIN /IQJfssdJfsl obeqs{fx pe{qdzI x I{fx o{us{ozn IqprwIn bhofuzdCozn -IQ scfhnagIF ndI usp. ufdI ojdCozI3114-It/727.728A
- \8^ Kjn fof{IK/ID i foIZ /IY jpoHIY /IY jfIZ /AI I bohIY /IS bslB /AN bsdI fw{I jIIN /IR jbpIZ /IL oprnB /II MfotfuI IL /Q/AT di n JeduS /N /AI fssjokAI b{fmp oIE /AT fmbn bojdI bn IW/IS fdfous f{vnmI joI3H I I UTIX jafIUfdI opphzie fwrnqn fowbwt vqfsqpx fa-ID N O -IT fvm3118I32.36A B/3119*A
- \9^ Tfrwn bojdI bn IW/ID i foIZ /IY jpoHIY /IY jfIZ /AI I bohIY /IS ffw{IK/MA/IR jbpIZ /IS bslB /IIMfotfuI L /Q/AT di n JeduS /N /AE P F IX jafI' IB qqrndbujpotIX psl ti pq-IQobn bID juz -IGMIJ27.28/2/3118*A
- \: ^ D prnpoTIH /Q /IZfrr{plef{Ipppspx -I{Sx jbuD bvl jI311: -159.88-I: 1328*A
- \21^ L bn jdi hsbI Z /A X bnbobefI U/A I jshopl N /A I prnopl I /A Jspol B stfojdI TyqfspdpevdupsII Mb\p_{2,7}G₇^GfB tIjyI >11-16. 1-23^ x ju I UdI >187IL -IKpvso bnrpgul FIB n fajdbolD i fn jdbnrT pdjfuZ I 3119-1241-122-143: 7.48: 8A
- \22^ I bhofok/ID pofotfeln bufsIQI ztjdtJU i fiQ ojdugafID pef-ID buwefI311: -1568-16571.658A
- \23^ N bIZ /IH bpII /IR jIZ /AI I bohIY /IX bohIM/II I bohII /IX bohIE /IG besgdubujpolboeIdI babduf s{ebujpol pgl jspol qojdugefI x jeftI boel evrnI n bufsjbnI u{spvhi u{ u{fI qpx efs.jo.uwefI n fuI po-II QI ztjdbID I311: -157: -11782.787AI
- \24^ R jIZ /AI I bohIY /IH bpII /AI I bohII /IX bohIM/IX bohIE /IN bIZ /AT vqfspdpevdugwuzI pgl ppx efs.jo. .uwefI s₇L_{1,6}f₃B t₃Ix jeft-IQI ztjdbID I311: -157: -1828.831A