NIST-114	-	U.S. DEPARTMENT OF COMMERCE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY				ERB Control Number (G#/B#)		JRES?		
(REV. 3-2008) ADMAN 4.09	NATIONAL INST					B2018-0305				
NOTING? C						ING? Check box and enter previously-approved control number and				
MANUS	MANUSCRIPT REVIEW AND APPROVAL									
Title and Subtitle (Cite in full, Capitalize first letter of each word except articles)										
Multi-pulse fitting of Transition Edge Sensor signals from a near-infrared continuous-wave source										
			1.00 1.00 1.00							
	Author/Point of Contact for this Submission (name, phone mailstop) Performing Organization (check one box)									
Gerrits, Thomas; 68		☐ NIST/Gaithersburg								
							NIST/Boulder			
							NIST/JILA			
Sponsoring Organization and Address (street, city, state, zip)										
Contract or Grant No	mber			Type of Report and/o	r Period Covered					
Proposed for NIST P	whitestan									
			Grant/Contrac	t Reports (NISTGCR)			Monograph (NIST MN)	Other		
Journal of Research (NIST JRES) Grant/Contract Reports (NISTGCR) J. Phys. & Chem. Ref. Data (JPCRD) Natl. STD. Ref. Data Series (NIST NSRDS)							Letter Circular			
Handbook (NI	•			rocess, STDS. (NIST Fil	-	$\overline{\Box}$	Building SCI. Series			
	ation (NIST SP)			ncy/internal Report (NIS	·		Product Standards			
Technical Not	-		_	truction Safety Team Ac		=	ITL Bulletin			
	IST Publication (cite fully):			X) u.s.	Foreign					
Review of Scientif	- *-									
Publishing Medium:	X Paper		Diskette	CD-ROM	www	Other				
SUPPLEMENTARY NOTES (IF A MANUSCRIPT IS BEING NOTED, PLEASE CITE THE PREVIOUSLY APPROVED DOCUMENT BY ERB CONTROL NUMBER)										
Publication ID = (926339):										
Abstract (A 2000-cha	racter or less factual summ	ary of	most significant	information. If document	includes a significant b	ibliography o	r literature survey, cite it t	ere. Spell acron	yms	
on first reference.)	nsors (TES) are photon-	numi	her resolvine i	-alarimetric enectrome	ters with near unit e	fficiency. T	heir recovery time on	the order of		
	is the number resolving:								irce	
	apping signals, thereby									
	al-to-noise ratio, as in th									
	ocate pulses in time, and					odel. As an	example, we measure	: the second-of	ruer	
time correlation of a coherent source in a single spatial mode using a single TES detector.										
Key Words (Maximus	m of 0.78 phyropters and ex	12025	each genomie	with semicolons alchebe	lic order: canitalize only	proper name	s.)			
Key Words (Maximum of 9; 28 characters and spaces each, separate with semicolons, alphabetic order, capitalize only proper names.) If the paper is relevant to a strategic focus area (SFA) namely homeland security, nanotechnology, biosystems and health, or information/knowledge management, list the SFA as a										
keyword so that we can identify the work for SFA bibliographies. single photon detector; transition edge sensor; quantum information										
Availability:							AUTHORS: if you	do not wish thi	S	
_	illad D Sacrassica		utlon - do oct -	elease to NTIS or GPO			manuscript announce	ed before		
X Unlim	nora <u>Li</u> Por omiciali e	19U10	wayn - uu ROC I	CIPER IN IN IN DESCRIPTION			publication, please of	леск пеге.		
							2	ถ		
							1			

AUTHO	RS	
Author(s) Affiliation, if NIST, give organization code, phone, and malistop; order as on	*Author Signature	Date
manuscript Gerrits, T., 686.06; thomas.gerrits@nist.gov; (303) 497-4661	There	7/19/18
Lita, A. E., 686.06; adriana.lita@nist.gov; (303) 497-4608		''''
Nam, S.W 686.06; saewoo,nam@nist.gov; (303) 497-3148	,	
Lee, J., National University of Singapore,; SG;		
Shen, L., Centre for Quantum Technologies, National University of Singapore; S	G;	
Cere, A.,		
Kurtsiefer, C.		
Form Submitted By – if not point of contact, page 1 (name, division, phone, and mail sto	p)	
Wright, Sue (Fed) - 686 - (303) 497-4635 - Mailstop 686.00		
DIVISION AND OU	APPROVALS	
Division Reader	Signature	Date
Levine, Zuchary		
Group Leader (If required)	Signature	Drate
*Division Chief (Certifies Homeland Defense Clearance)	Signature	Date
Newbury, Nathan R		
Organizational Unit (OU) Director (if required) (Likely to draw conspicuous public attention to NIST)	Signature	Date
NIST Counsel (if required, e.g., for evaluation of commercial products) or BFRL Director World Trade Center is mentioned)	(If Signature	Date
EDITORIAL REVIEW BOARD INF	ORMATION AND ACTIONS	
	SIGNATURE SIGNATURE	DATE
ERB Reader: name, maistop (or address), and phone Ling, Alexander, (outside), Affiliation - National University of Singapore,	43	3/08/228
Approve	Do Not Approve (Please comment)	
Approve - suggested changes	Recommend Consideration for an Aware	1
Approve - changes have been agreed to by author	For Technical Content	
Approve - only if specified changes are made *ERB SPONSOR: name, mail stop, and phone	For Quality of Exposition	
Sanford, Norman, Division - 686, EMail - norman.sanford@nist.gov, Phone - (30 497-5239, MailStop - 686.09	3) Signature	Date
Approve	Approve – Author has agreed to change	
☐ Do Not Approve (see comments under Return to Sponsor below)	Recommend for an Award	
Sponsors' Final Review Initials J. R	IES., JPCRD, OR NIST-NSRDS Editor Approval, Dat	te ·
Return to Sponsor, Further Action Requested: Specify Rel	eased for Publication (Authorizing Official), Data	

*Asterisks indicate signatures required for NOTING only

NiST-114 (REV. 3-2008) Administration Forms