

TES III : Third International Workshop on Transition Edge Sensors

Thu Aug 17

Time	Title	Speaker
08:30	<i>Registration</i> <i><u>TES Noise and Signal Degradation</u></i>	
09:00	TES III Welcome	
09:10	Thermodynamics of nonlinear bolometers near equilibrium	Irwin
09:40	Thermalization and phonon down-conversion noise in TES microcalorimeters	Kozorezov
10:10	Flux Flow noise in Transition Edge Sensors	Galeazzi
10:40	<i>Coffee Break</i>	
11:15	Excess Noise in TESs: A Comparison of Current Theories	Brandt
11:40	Excess Broadening Due to Diffusion in the Absorber	Saab
12:05	Presentation of Posters	
12:20	<i>Lunch</i> <i><u>Multiplexing and Alternative Readouts</u></i>	
01:45	Recent developments in frequency domain multiplexing	van der Kuur
02:10	Time-division SQUID multiplexer for 128 TES X-ray microcalorimeters	Hilton
02:35	Low temperature transformer readout electronics for microcalorimeters	Ferrari
03:00	Multiplexed Transformers to Read Out Arrays of Microcalorimeters	Galeazzi
	<i>Coffee Break & Poster Session</i>	
	Optical TES Imaging: Some stuff you never think about	Bay
	Upcoming TES Bolometer Arrays in Cameras for Millimeter Wavelength Astronomy	Benford
	Superconducting Nanowire Bolometers	Bock
3:20	Developing Fully Integrated TES Microcalorimeters using Ir TES and Sn Absorbers	Bogorin
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4:25	Cantilevered X-ray Absorbers for Close-Packed TES Detector Arrays	Brown
	First result of EDXRD experiment using a gamma-ray TES calorimeter with Sn absorber	Hoshino
	Analysis of Saturated Pulses for the Waveform Domain Multiplexing Readout of IR-TES	Ohno
	TES bolometers with non-Andreev contacts	Vystavkin
	Understanding thermal process in TES X-ray microcalorimeters using a FEM thermal model	Yoshino
	Noise studies in Tin	Zhang

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Detectors - I

04:30	A Hot-Electron Direct Detector for Low-Background Submillimeter Applications	Karasik
04:55	TESs Take Pretty Pictures	Burney/Bay
05:20	High-density arrays of x-ray microcalorimeters for Constellation-X	Bandler
05:45	TES @ ASC 2008	Irwin

7:00

TES III Dinner

Fri Aug 18

Time	Title	Speaker
<u>TES Characterization</u>		
09:00	Study of transition steepness for wiring and absorber coupling geometries	van der Kuur
09:25	Equivalent circuit measurement and complex impedance of calorimeters and bolometers	Lindeman
09:50	Characterization of x-ray microcalorimeters for Constellation-X	Iyomoto
10:15	<i>Coffee Break</i>	
<u>Detectors - II</u>		
10:45	A high energy resolution gamma-ray TES calorimeter with 0.5ms response time	Oshima
11:10	Gamma-ray microcalorimeter arrays for nuclear materials analysis	Ullom
11:35	Position Sensitive Transition-Edge Sensors: Recent Progress and Current Issues	Figueroa-Feliciano
12:00	Doped Silicon Phonon-Mediated, Distributed, TES Detector With Deep Trenches For Use In Astronomy	Leman
12:25	<i>Lunch</i>	
<u>Experimental Applications</u>		
01:55	Performance of prototype finline-coupled TES bolometers for CLOVER	Audley
02:20	Status report on the development of TES for MANU2	Ribeiro-Gomes
02:45	Light detector development for CRESST Dark Matter Search	Pantic
03:10	Detector Development for the Next Phases of the Cryogenic Dark Matter Search	Bailey
03:35	<i>Coffee Break & Poster Session</i>	
04:35	<i>General TES Discussion and Wrap-up Session</i>	
05:30		

The organizers wish to thank VeriCold Technologies, Oxford Instruments, and Star Cryoelectronics for their generous support of this workshop.