



# LIDINE2013: Light Detection In Noble Elements

## Wednesday, 29 May 2013

### Scintillation Light from Noble Elements - R&D Efforts: Light Emission, Propagation, Collection: Simulations and Analytical Parameterizations (09:10 - 10:25)

time	[id] title	presenter
09:10	[0] NEST: The Noble Element Simulation Technique	Dr SZYDAGIS, Matthew
09:35	[13] AN ANALYTIC TECHNIQUE FOR THE ESTIMATION OF THE LIGHT YIELD OF A SCINTILLATION DETECTOR	Dr SEGRETO, Ettore
10:00	[18] Optical Simulations of Wavelength Shifting Fibers	Dr PAHLKA, Benton

### Scintillation Light from Noble Elements - R&D Efforts: Light Emission, Propagation, Collection: Discussion (10:25 - 10:40)

### Scintillation Light from Noble Elements - R&D Efforts: Light Detection (photo-sensors): PMTs (10:55 - 11:45)

time	[id] title	presenter
10:55	[22] Characterization of the R5912-02 MOD Photomultiplier Tube at Cryogenic Temperatures	CALDWELL, Thomas
11:20	[15] R11410-21 3-Inch Photomultiplier Tube for XENON1T Dark Matter Experiment.	Dr LYASHENKO, Alexey

### Scintillation Light from Noble Elements - R&D Efforts: Light Detection (photo-sensors): New Devices (12:45 - 14:00)

time	[id] title	presenter
12:45	[25] Liquid argon scintillation read-out with silicon devices	Dr SEGRETO, Ettore Dr CANCI, Nicola
13:10	[21] QUartz Photon Intensifying Detector (QUPID): a possible alternative for noble liquid experiments	Dr LYASHENKO, Alexey
13:35	[29] Large Area Picosecond Photodetectors for Use in Liquid Noble Detectors	Dr ELAGIN, Andrey

### Scintillation Light from Noble Elements - R&D Efforts: Light Detection (photo-sensors): Discussion (14:00 - 14:15)

### Scintillation Light from Noble Elements - R&D Efforts: (Noble) Medium Properties (Ar, Xe, He): Liquid Phase (chemical or radioactive contaminations) (14:15 - 15:30)

time	[id] title	presenter
14:15	[28] Results from the Bo Argon Scintillation Test Stand at Fermilab	Mr JONES, Benjamin
14:40	[24] Low Radioactivity Argon from Underground Sources	Dr BACK, Henning

15:05	[16] Status of The Solid Xenon Project at Fermilab
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Dr PAHLKA, Benton
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### **Scintillation Light from Noble Elements - R&D Efforts: (Noble) Medium Properties (Ar, Xe, He): Solid or Gas phase (09:00 - 09:50)**

time	[id] title	presenter
09:00	[4] Pressurized xenon as scintillator for gamma spectroscopy	Dr RESNATI, Filippo
09:25	[2] Exploring LXe's scintillation response at the 1 keV level	Dr MANALAYSAY, Aaron

### **Scintillation Light from Noble Elements - R&D Efforts: (Noble) Medium Properties (Ar, Xe, He): Discussion (09:50 - 10:10)**

### **Scintillation Light from Noble Elements - R&D Efforts: Light Wavelength Shifting: Wavelength Shifting by TPB: Aging Studies (10:25 - 11:40)**

time	[id] title	presenter
10:25	[12] AGING STUDIES OF THIN TPB FILMS	Dr SEGRETO, Ettore Dr CANCI, Nicola
10:50	[8] Effect of Exposure to Optical and Near UV Light on Waveshifter Efficiency	MUFSON, Stuart
11:15	[19] Photodegradation Mechanisms of Tetraphenyl Butadiene Coatings for Liquid Argon Detectors	VANGEMERT, Jennifer

### **Scintillation Light from Noble Elements - R&D Efforts: Light Wavelength Shifting: Wavelength Shifting by TPB: Aging Studies and Tests and Comparisons with Alternative WLS compounds (11:40 - 12:05)**

time	[id] title	presenter
11:40	[7] Comparison of TPB and bis-MSB as VUV Waveshifters	Mr BAPTISTA, Brian

### **Scintillation Light from Noble Elements - R&D Efforts: Light Wavelength Shifting: Wavelength Shifting by TPB: Aging Studies and Tests and Comparisons with Alternative WLS compounds (13:05 - 13:55)**

time	[id] title	presenter
13:05	[11] Experiences Using TPB to Detect Scintillations in Liquid Helium	Prof. HUFFMAN, Paul
13:30	[30] VUV-VIS optical characterization of Tetraphenyl-butadiene films on glass and specular reflector substrates from room to liquid Argon temperature	CAVANNA, Flavio Prof. FRANCI, Roberto

### **Scintillation Light from Noble Elements - R&D Efforts: Light Wavelength Shifting: Wavelength Shifting by Other Methods (13:55 - 15:10)**

time	[id] title	presenter
13:55	[10] Development of a Wavelength-Shifting Fiber-Based Photon Detector for LBNE	WASSERMAN, Ryan
14:20	[27] WLS Gasses for High-Pressure Xenon Detectors	Dr GEHMAN, Victor

14:45	[26] WLS R&D for the Detection of Noble Gas Scintillation at LBL: seeing the light from neutrinos, to dark matter, to double beta decay	Dr GEHMAN, Victor
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**Scintillation Light from Noble Elements - R&D Efforts: Light Wavelength Shifting: Discussion (15:10 - 15:30)**