Yale CAEN Workshop - Thursday March 12, 2016

9-9:30am	**Digitizer overview** - what digitizers do and how they do it - CAEN models - features - architectures	EAL108
9:30-10am	**Digitizers for physics applications** - scalability - synchronization - digital pulse processing - fast readout	EAL 108
10-10:30am	**Digital pulse processing, part I** - principle of operation - pulse shape discrimination	EAL 108
10:30-10:45am	**Coffee break in WLab common area**	
10:45-11:30am	**Digital pulse processing, part II** - pulse height analysis - constant fraction discrimination and timing measurements - questions	EAL108
11:30-12pm	**Examples of real applications** **Software** - multiparametric (T, E, S0 acquisition and analysis (spectra, list, coincidence, …))	EAL 108
12-1:30pm	**Lunch on your own, PROSPECT meet with Marco & Carlo**	
1:30-3:00pm	**Live demonstration** Real acquisitions and analysis demonstrated with DT5730 digitizer + digital detector emulator. Measurements will be performed with NaI, HPGe, and/or scintillator detectors using gamma and neutron sources.	EAL 104