Update on CAL calibrations at CERN (David, Fred, Johan, Thierry)

- **Procedure**
    - **Muon + CI calibration of CU already done at beginning**
        - **New muon runs also planned at CERN**
    - **First e- runs taken with 4-range readout**
        - **To be processed with CalTupleAlg.fourRangeMode set to true (default is false, Cf Doxygen documentation of CalXtalResponse) : "if this option is chosen, then the array shape is altered to support the extra range information ([16][8][12][2][4])" (Zach)**
            - **CalXtalAdcPed[16][8][12][2][4]: pedestal subtracted ADC values per channel**
            - **CalXtalFaceSignal[16][8][12][2][4]: signal at each crystal face in units of MeV deposited at center of xtal**
        - **Note: "TDS Digi data must be in ALLRANGE mode, not the default BEST. Otherwise the additional CalTuple entries will be zero."**
            - **Fred: ???**
    - **Intercalibration of consecutive energy gains with offline macro**
    - **If some ratios differ significantly (5, 10, 20 %?) from 1, then**
        - **Check muon calibration**
        - **If muon calibration ok, then apply corrrection to DB calibration constants**
            - **Use Zach's mpd[TXT2XML][XML2TXT].py scripts**
            - **Update DB xml file (calibGenCal experts know how)**

- **To be done**
    - **Test new CalTuple production (CalTupleAlg.fourRangeMode true)**
        - **Run BTrelease with modified jobOptions file on real data taken in Pisa ?**
    - **Exercise with offline macro and scripts**