Hutch Standard Configuration Projects

2016-11-14 mtg cpo & sxr/amo scientists minutes

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O'Grady, Paul Christopher comments after the meeting with amo/sxr people
Mon 11/14/2016 11:49 AM
To:Dubrovin, Mikhail;

delay-line detector (hex and square)
    (currently use third-party cobold
    software and acqiris at the same time). can typically tolerate about
    5 simultaneous hits (timur). get multiple momentum-spheres moving through
    plane of detector, and that gives the x/y blobs. also work with dipanwita on
    this.

amo laser spatial/temporal overlap:
    requested by gessner
    looks for changes in N2 acqiris spectrum
    needs to run in real-time (i.e. shared memory)

future possibility from dipanwita: amo VMI electron analysis (angular
integration of opal camera over angular region)

formal timetool calibration
    ideally would feedback into ami or real-time psana

sxr diode non-linearity correction (giorgi)
    also a normalization from GMD or something else (talk to Dan Higley)

look at correlations between multiple detectors (mean vs. scan) (Alex)

    perhaps related to non-linearity above
    nice to generalize (works for GMD, MCP I0, Andor, Acqiris)
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References

- Experiment monitoring tool
- Quad- and hex- anode detector monitoring software
    - Hexanode detector library test
    - Hexanode detector test on data
    - Hexanode users' examples
    - Quad-anode test on real data
    - Waveform processing and peakfinder