PØD Summer 2012 Work Update

Last week:

Dave and Bruce made a short trip to Stony Brook, Thursday, April 5

• 4.5 hours of technical discussions with Clark
  -> Detailed plan much clearer, outline in next slides

• Budget meeting with Chang Kee
  -> Basic budget approved

-> Very productive and worthwhile trip
Water Bag Replacement Options

Basic problem:
- Threaded rods that run across top of SuperPODule, through the bag headers - 3 per bag

Options:
1. Lift the SuperPODule high enough to pull rods out the ends (~6 in)
2. Cut the rods in place

Lifting:
- Jack screws cannot lift far enough
- Need SuperPODule lifter (lifts SuperPODule and Al support beams)
  - Approach is to use modified version of original installation system
  - Earlier idea of a new structure supported off the basket is more complicated and expensive

Cutting:
- Dremmel-tool based cutter, enclosed to contain dust
- Must test system to be sure it is safe

Plan: Keep both options open, pick after looking at POD with magnet open
Summer Work Schedule

The basic schedule outline is similar to that presented earlier:

Trip #1:  1 week  Open up detector, make assessments and measurements
          Decide on bag replacement approach
          3 weeks  Test all water bags - do we still just have one leaking?
                    Test replacement approach at Stony Brook

Trip #2:  2 weeks  Replace Bag 28
          3 weeks  Test all water bags

Trip #3:  2 weeks  Closeup
          New drip pan, new dry air containment system

Questions:
-> Is 3 weeks the right amount of time for testing?
-> When is $T_0$? Walter suggested July 15 as nominal time.
-> Manpower constraints to be integrated
   (Dave’s schedule, fall semester start)
Next steps

• Update schedule with new approach, include manpower constraints

• Present more detailed plan to POD group, and then to ND280 conveners (at collaboration meeting)