Slice Testing
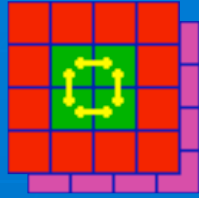
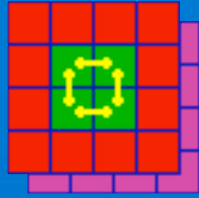*Priorities & Plans*

Overview

- CP

- JEP

- PPM

- Backplane

- 9U ROD

- Other Modules
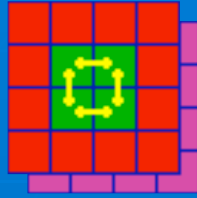
- Test Beam Synchronisation

CP

- CP
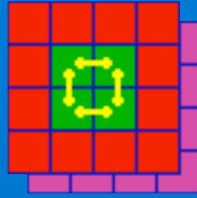 - A few remaining basic issues:
    - Implement a maximum number of CPM configuration.
    - Prepare checklist and revisit it:
      - Timing setup.
      - BCNUM matching.
      - Operation at minimal L1A separation.
      - Multi-slice operation.
  - Add a couple of CPMs and we can start some real tests.
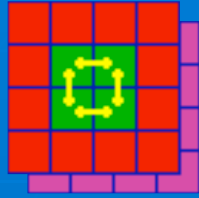 - And one of these days, we'll even have a PPM!

JEP

- Await new module:
  - Use Jem 0.1 to debug
    - CMM firmware.
      - JET variant, in particular.
    - RoI ReadOut and event matching.
- JEM 1.0
  - Available Mid May, early June:
    - Time to schedule tests soon.
  - Then:
    - Reintegrate with ROD, CMM.
    - When will a 2nd JEM be available?
  - Requirements:
    - Software.
    - 6u ROD firmware for RoI.
    - G-Link Optical-Electrical converters
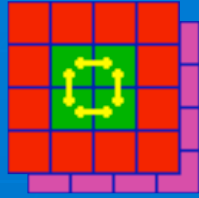- Actual Status in terms of slice-test progress?
  - Snookered.

PPM

- **Early Front End integration:**
  - Needs to be scheduled in conjunction with JEM, CPM
  - To take place in Mainz ASAP.
  - Date to be agreed.
- **Test beam in June:**
  - Takes the "front seat"
  - This by definition leaves slice tests in the "back seat".
- **Multiple new PPMs**
  - Available soon.
    - When will firmware be mature.
    - When will all the software components be available to allow integration?
    - Difficult to schedule when there are not many dates to work from!
    - Middle June?

Backplane

- Backplane working group
  - established after Heidelberg.
  - Request for input from Sam.
  - Not much more activity, yet.
- Testing.
  - Systematic work to proceed in BRUM.
  - Orthogonal series at RAL?
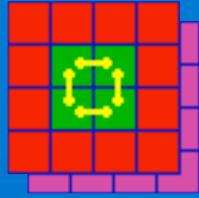- Repair of bent pins.
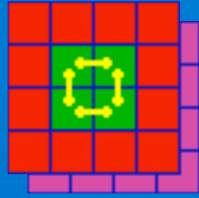 - Not yet demonstrated!

9U Rod

- ! **9U ROD**
  - Just around the corner!
    - ! Something ready to plug-in in July.
    - ! Software work needs to start soon.

Other Modules

- TCM & VMM:
  - Are there tests which are missing or unfinished?
    - CAN.
    - Reset functionality.
    - Clock integrity.
    - Dual-port use.

Test Beam Synchronisation

- Commitments start in July:
  - What Testing work can go on in parallel:
    - Largely JEM and 9U ROD. These will likely be late arrivals to the test beam.
    - Systematic CP tests from the "checklist" –
      - As a part of the programme
      - When beam not available.
  - How to minimise disruption?
    - Do initial DAQ integration with DSS and ROD, as suggested at Heidelberg?
    - Delay shipping date. Then change "mode".