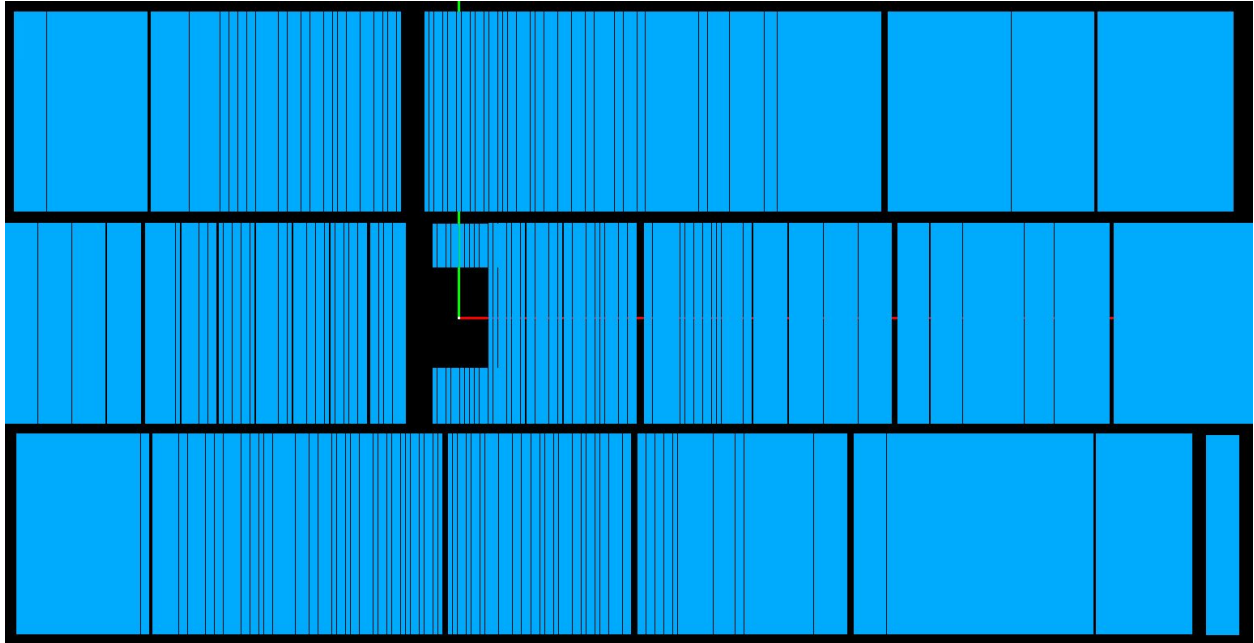
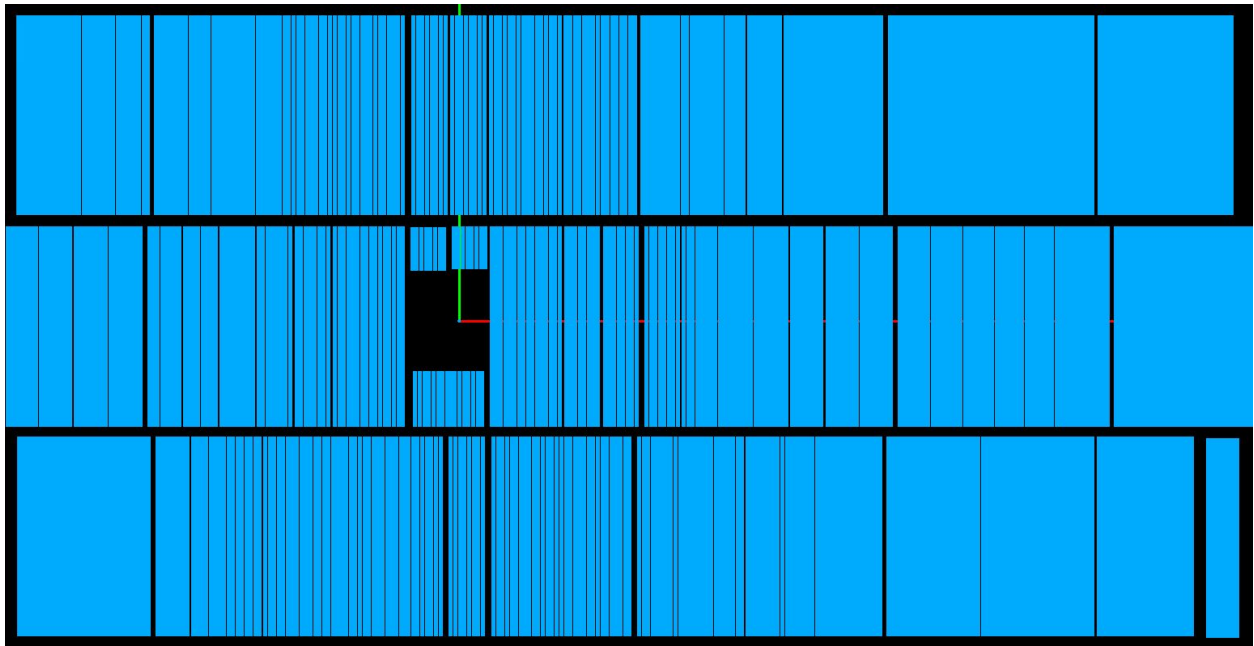


General comparison without data

Original



After calibration



B27 B26 B25

The calibration fixed a few things

- Two gaps for the top row: the second gap got narrower, the third gap shows up
- The short packs in the middle row

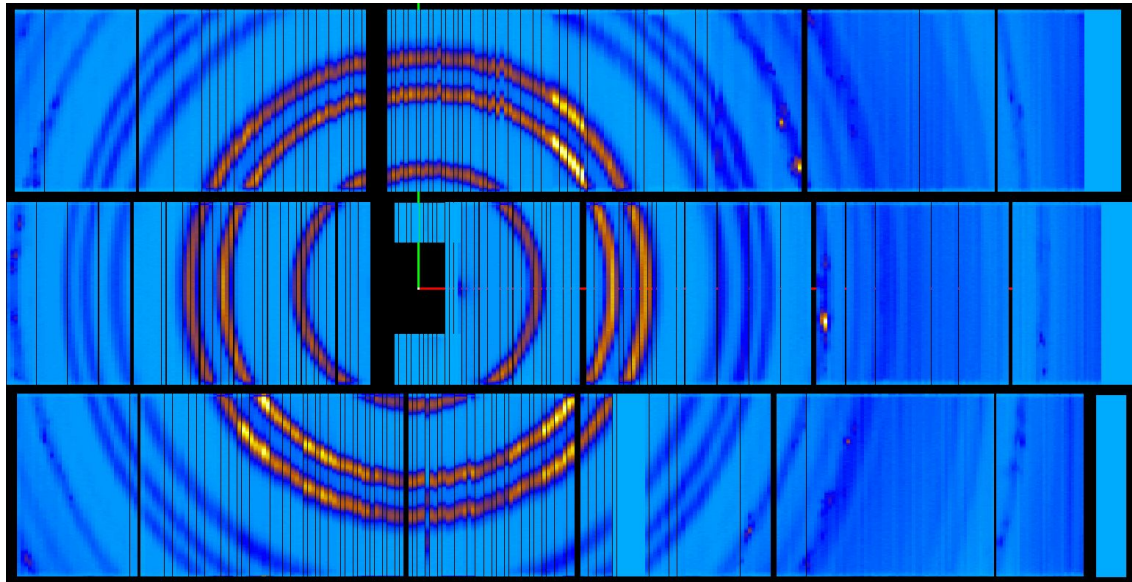
- The fourth gap in the bottom row

The main thing that is unsatisfactory is that the gap between B27 and B26 is missing. And the gap between B25 and B24 is probably too large.

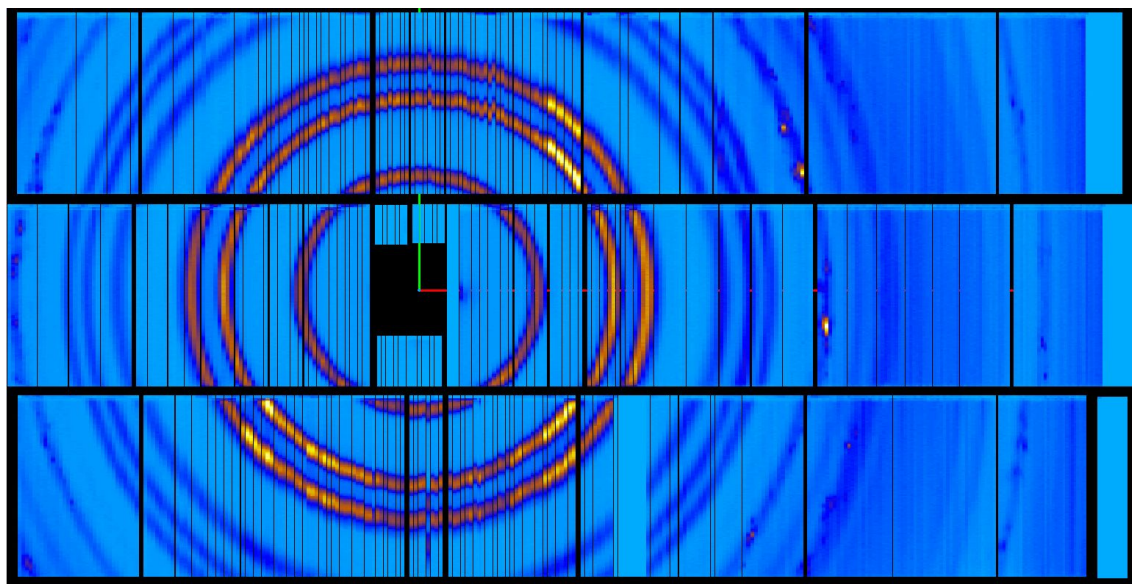
Monochromatic powder C60 data

Now let us look at a particular dataset, IPTS-19573 / run-130257. C60, Ei=60meV

Original



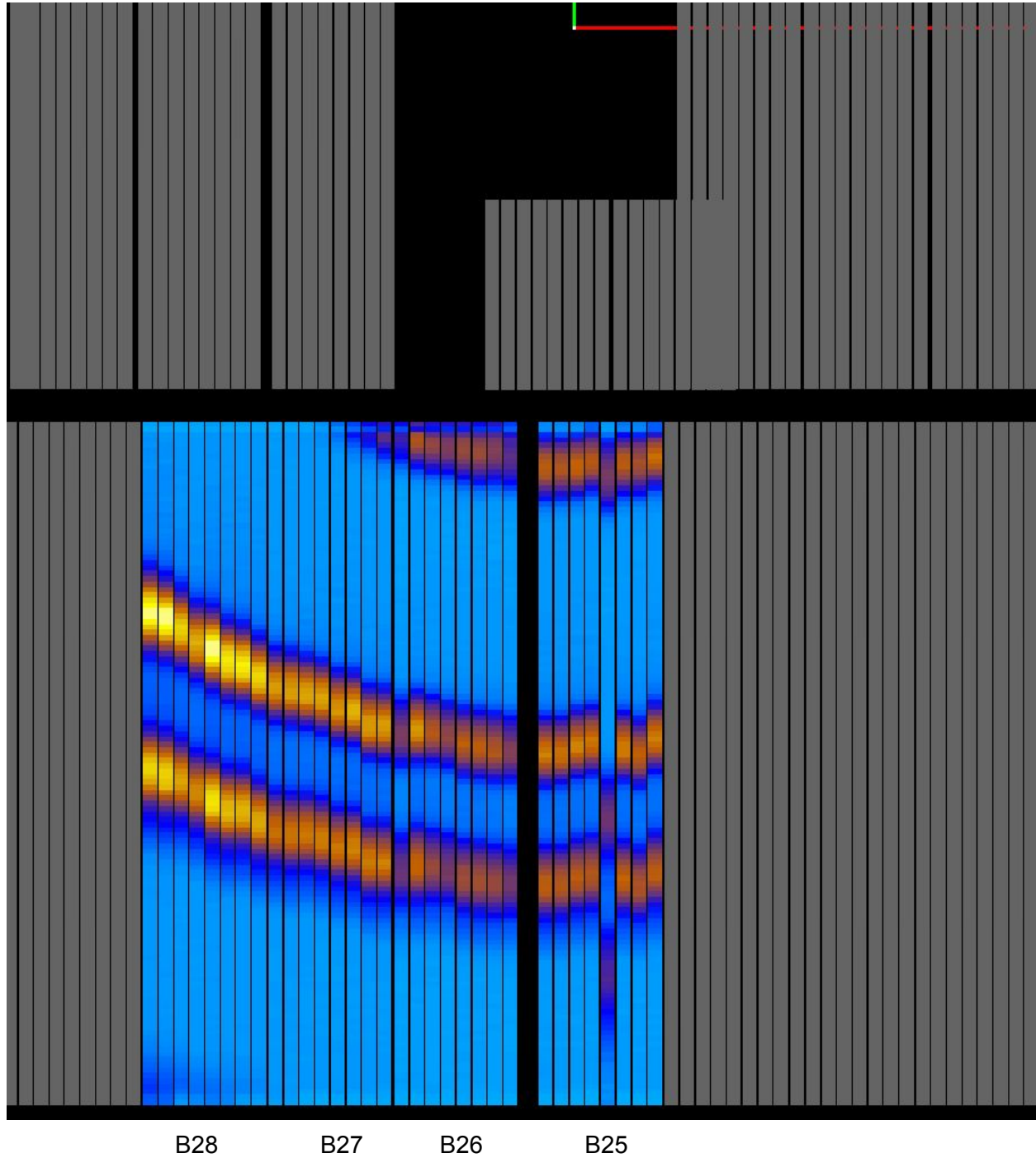
After calibration



It is obvious that in the top-left portion of the view the rings are more rounded after calibration. A portion of a ring near the 4th gap in the bottom row is better too. These makes us confident that the calibration is doing well for most of the detector packs.

B28-B25

Now let us turn our attention to the packs near the 2nd gap of the bottom row. This is the same data from the previous section but we zoom in and mask all packs irrelevant.



Note: Tubes counts down from left to right

Clearly the rings in B25 (the right most pack) is not the best quality. The tube 4 is very much off. Tubes 5-8 show a consistent trend. Tubes 1-3 show the same trend as tube 5-8 at the top but not so much in the middle and lower part.

Now B26. Comparing to the trend in B28 and B27, the data in B26 (with the exception of tube 8) indicates that it should be either lower or more to the left. However, the gap we expect between B27 and B26 would require B26 to move to the right.

In summary, B25 and B26 need more inspection. **Is it possible that the electronic mapping of pixels is slightly off? This is most obvious at tube 4 of pack B25.**