

## Comparison of QE Mapping for Different PMTs



Hamamatsu 1926A QE Mapping at 350 nm Hamamatsu Regular PMT --- Max QE: 28%

2 Sb beads opposite to each other





Hamamatsu 1924A-100 (SBA) QE Mapping at 350nm Hamamatsu Super Bi-Alkali PMT --- Max QE: 39%

2 Sb beads opposite to each other







PMT#2 QE Mappingat 350nm --- Max QE: 27%



Chalice cathode #6 QE Mapping at 350nm --- Max QE: 18%



QE between 8% at center and 18% at corners.

4

## Summary:

- 1. Both Hamamatsu PMTs have 2 Sb beads opposite to each other, Burle PMT only has one Sb bead almost in the center.
- 2. The QE distribution of Burle PMT following Sb film deposition thickness.
- 3. The Sb beads position of Hamamatsu PMTs were not recorded during scan, the Sb positions were not labeled.
- 4. Note that, the highest QE spots on both Hamamatsu PMTs are not in the center. QE of the center areas are LOWER than the area near center. The lower QE in the center may due to Sb film distribution??
- 5. It may be worth to re-do the Hamamatsu PMT QE scan, relate the Sb bead positions to the QE map.