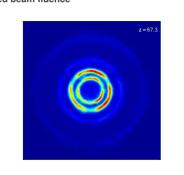
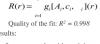


Measured beam fluence

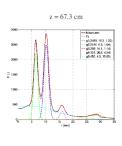




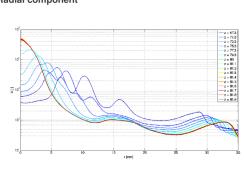
Assume axial symmetry: $\mathcal{D}(r, \theta, E, \Omega) = X(r, \theta) \mathcal{Y}(r, \theta, E, \Omega)$ $=R(r)\Theta(r, \theta) \Psi(r, \theta, E, \Omega)$ Step 1: Find radial component R(r) using multi-Gaussian fit $R(r) = \int_{i=1}^{\infty} g_i[A_i, c_i, j](r)$ Ouality of the fit: $R^2 = 0.998$



- 3 narrow peaks with $\sigma \approx 1.1$ mm
- · Wide peak in the center
- σ≈13.5 mm







Directional component

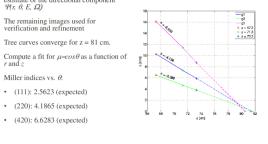
Use 1st three images to get the initial estimate of the directional component $\Psi(r; \theta, E, \Omega)$

The remaining images used for verification and refinement Tree curves converge for z = 81 cm.

Miller indices vs. θ :

• (111): 2.5623 (expected)

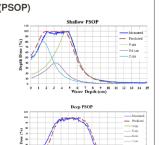
- · (220): 4.1865 (expected)
- (420): 6.6283 (expected)



Photon Spread Out Peak (PSOP)

PSOP designed from 3 focal spots ranging from 2 to 5 cm in depth in vater.

PSOP designed from 5 focal spots ranging from 4 to 8 cm in depth in water.



CRnR Collaboration



