

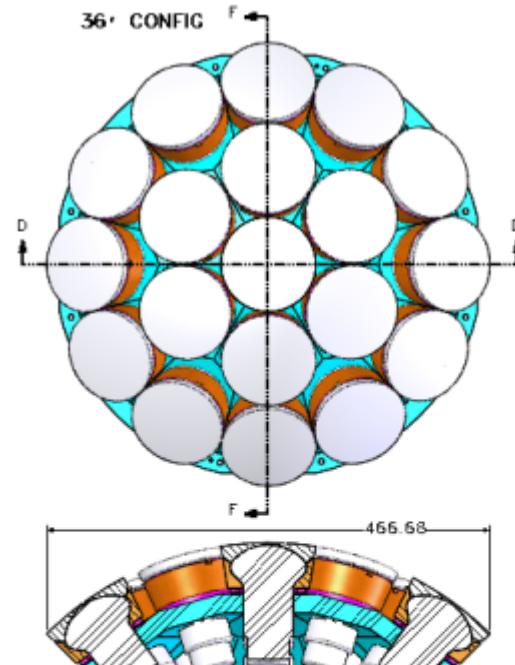
Progress Update

Trevor Towstego
UofT Neutrino/DM Meeting
March 23, 2017

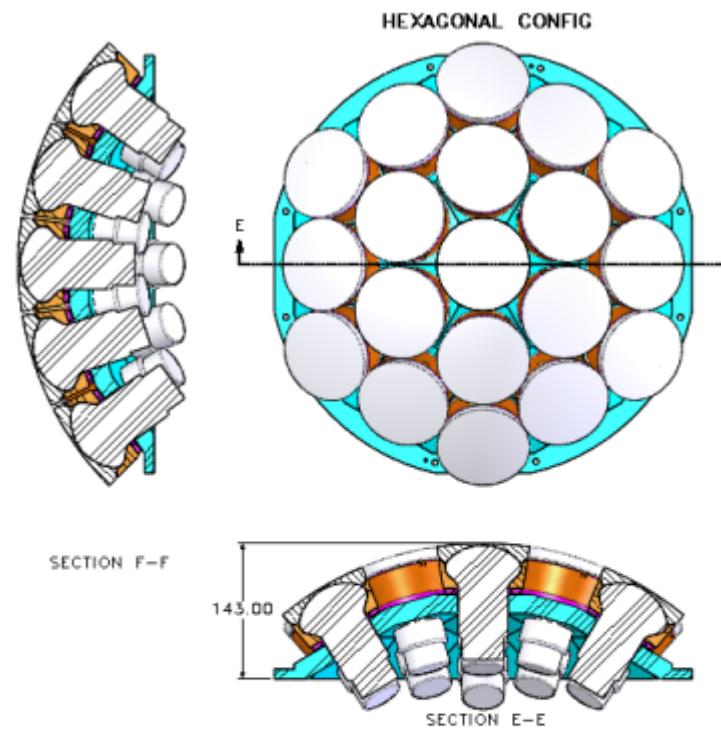
mPMT Progress

- With bug fixed, moved on to testing different mPMT configurations
- Tested angular acceptance of:
 - 3-ring configuration
 - 19 PMTs in module with circular outer ring
 - less directional, but longer reflectors
 - hexagonal configuration
 - 19 PMTs in module with hexagonal outer ring
 - more direction, shorter reflectors

3-ring configuration

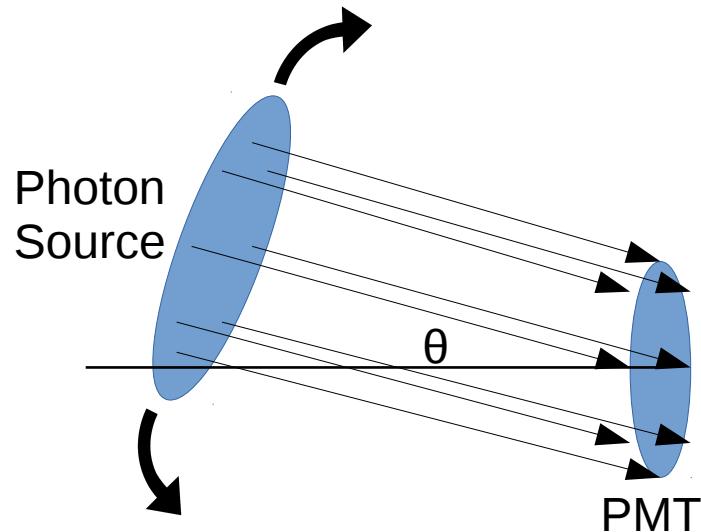


hexagonal configuration

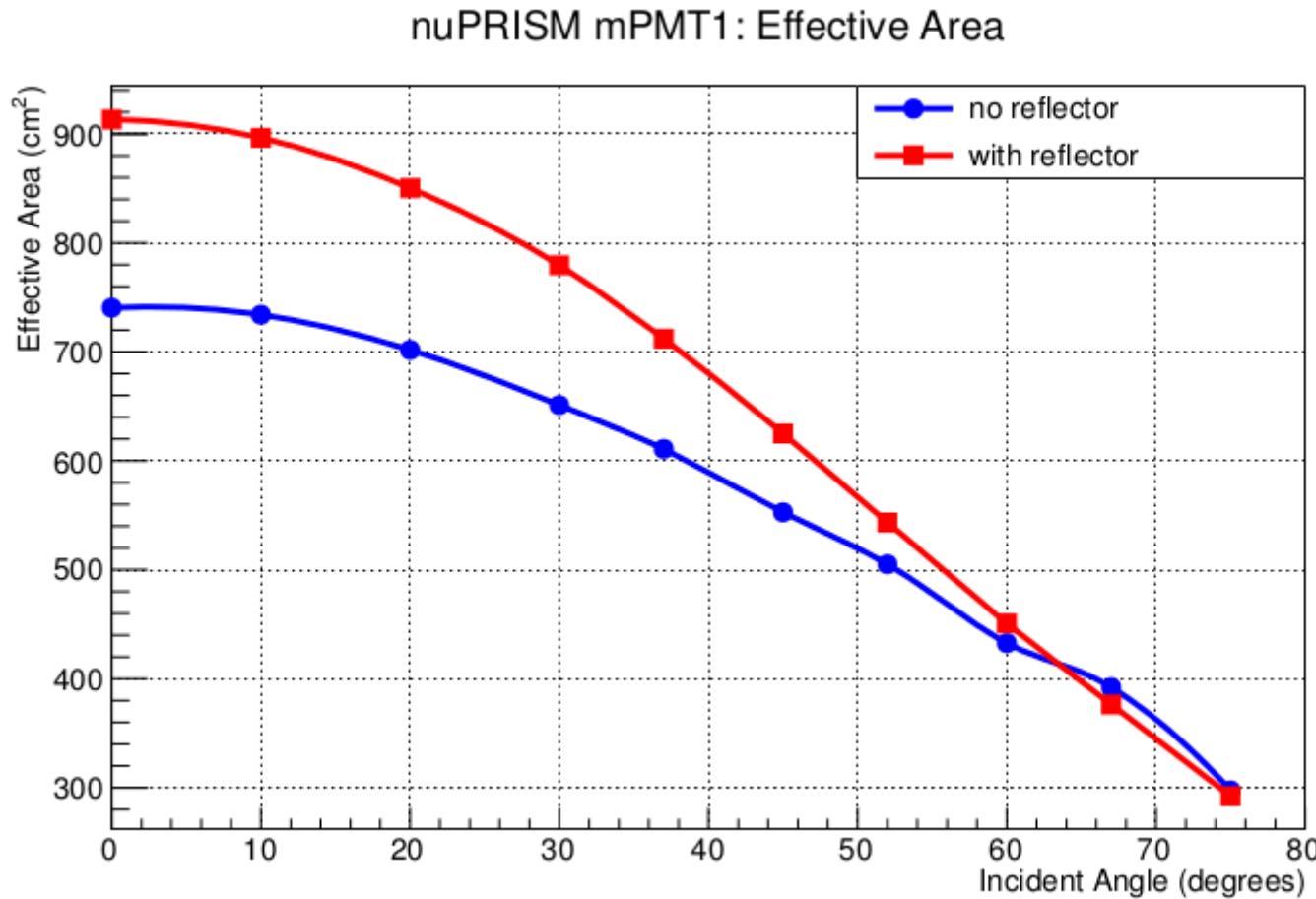


Angular Acceptance Simulations

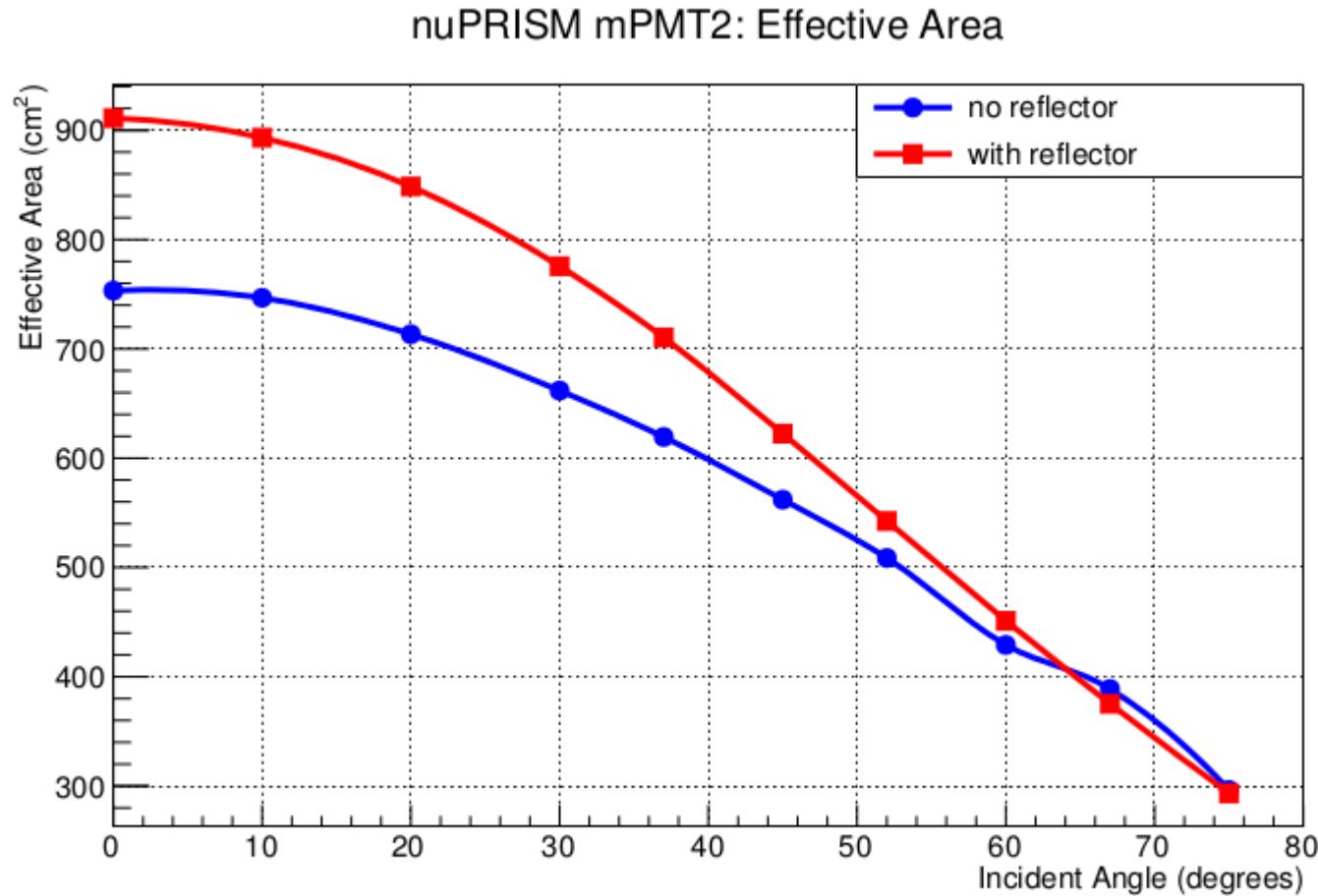
- optical photon source
 - 25 cm radius
 - 10^6 events
- 3-ring configuration
 - reflector height: 7.25 mm
 - opening angle: 48 deg
- hexagonal configuration
 - reflector height: 6 mm
 - opening angle: 48 deg



3-Ring Configuration



Hexagonal Configuration



Direct Comparison (with reflectors)

