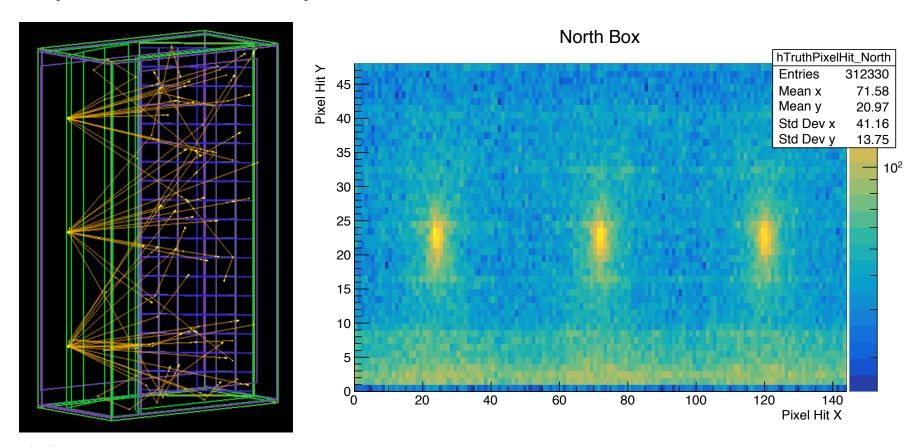
LED generator: status

 An LED generator is written in HDGeant4 and can produce hit maps



LED generator: details

- Photons are generated as particle gun
- For each event, throw a random number in [0, 1] and decide from which fiber feed-through to generate this photon
- Smear the starting location of this photon according to the diffuser shape
- Randomly pick the photon direction (θ, ϕ) , with θ range given by some maximum "opening angle", and ϕ in $[0, 2\pi]$
- Photon energy is monochromatic currently. Can smear this easily if needed

LED generator: next

- Need inputs of:
 - Diffuser shape
 - "Opening angle"

- Next:
 - Specify detailed goals of the LED simulation study
 - Write calibration plugin(s) to analyze hits