- Current Angular Resolutions
 - Propagate reconstructed track to surface for recover vector information (e.g. hpDIRC)
 - Use hit closest to propagated surface for truth vector information (e.g. Barrel ToF)
 - Phi angle grows at large $|\eta|$





Tracking WG, Nicolas Schmidt

 $\,\circ\,$ Three angular resolution definitions



- All angular definitions depend on direction information from truth and reconstructed track projected to PID surfaces
- Reconstructed Track
 - Use ACTS track propagator to propagate track to PID surface
- Truth Track
 - > Couple options for obtaining truth information at projected surface
 - Use tracking hit closest to the projected reconstructed hit
 - Implement a dummy surface (low mass and poor resolution) at projection location to record truth hit → could run into overlap issues as detectors and integration become more complex.
 - Other options?