

$\sigma(z_0)$  [ $\mu\text{m}$ ]

# ATLAS Simulation

Single  $\mu$ ITk - Digital Clustering,  $50 \times 50 \mu\text{m}^2$ Run-2 - Analogue Clustering,  $r_{\text{IBL}} = 33 \text{ mm}$ 

- $p_{\text{T}} = 1 \text{ GeV}$  (ITk)
- $p_{\text{T}} = 1 \text{ GeV}$  (Run-2)
- $p_{\text{T}} = 10 \text{ GeV}$  (ITk)
- $p_{\text{T}} = 10 \text{ GeV}$  (Run-2)
- $p_{\text{T}} = 100 \text{ GeV}$  (ITk)
- $p_{\text{T}} = 100 \text{ GeV}$  (Run-2)

