Charge sharing study status

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Beam & charge cloud geometry

- Enrico’s technique works properly for uniform charge distribution along the $y$-axis.
- For our point-like beam $\sigma$ is expected to be slightly higher than obtained with the simulation.

![Diagram of charged track and point-like photon beam](image-url)
This effect has contribution of $\lesssim 10\%$
Results

Features:

- 2M photons per each $\times$
- $E_\gamma = 30$ KeV
- $U_{bias} = 400$ V
- Energy dependency can be neglected
- $\sigma(0)$ is in accordance with $\sigma_{initial} = AE(1 - \frac{B}{CE + 1})$,

That’s it!