









c) Chris Macl

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Photon Shot Noise (Also Poisson)
 Example: for a typical 193nm resist with 10 mJ/cm² dose to clear,
For A = (1 nm) ² $\langle n \rangle = 97$ $\sigma_n / \langle n \rangle = 10\%$
For A = (10 nm) ² $\langle n \rangle = 9700$ $\sigma_n / \langle n \rangle = 1\%$
 Example: for an EUV resist with 5 mJ/cm² dose to clear,
For A = (1 nm) ² $\langle n \rangle = 3$ $\sigma_n / \langle n \rangle = 58\%$
For A = (10 nm) ² $\langle n \rangle$ = 300 $\sigma_n / \langle n \rangle$ = 6%
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