# Tracking studies of the Final Focus

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#### **Optics studies (1):** Tracking through the BDS



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## Optics studies (2): Optical bandwidth

Distribution of particles at the entrance of the BDS created with PLACET:



## **Optical bandwidth (official lattice, 20mrad)**



\*Luminosities normalized to the value obtained with Guinea-Pig for ideal beams

## **Optical bandwidth (optimized parameters by J.Payet)**

![](_page_4_Figure_1.jpeg)

\*Luminosities normalized to the value obtained with Guinea-Pig for ideal beams

#### Optical bandwidth (e<sup>-</sup>e<sup>-</sup> collision)

![](_page_5_Figure_1.jpeg)