

# **S2E meeting**

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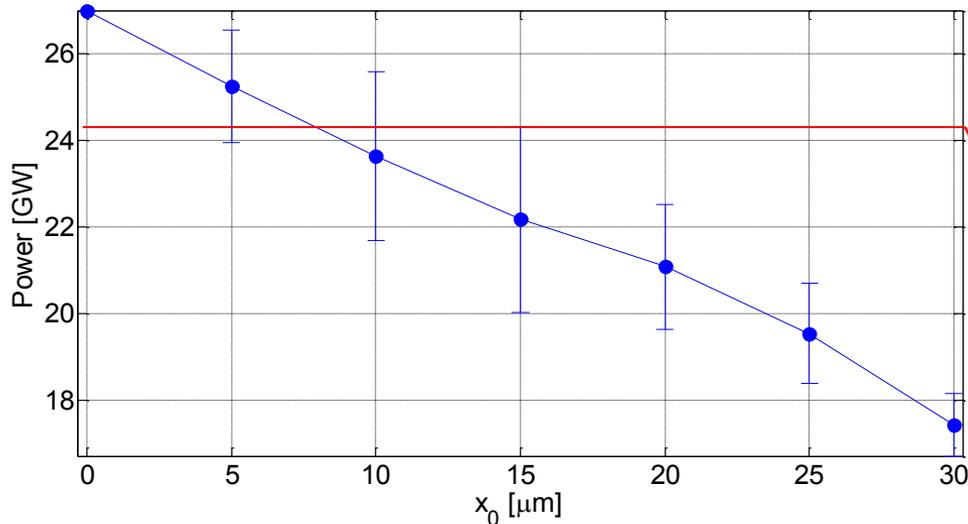
## Previous plan at S2E meeting 2013. 01. 30

- Genesis simulations for orbit correction with quadrupole and BPM errors (100%)
- To write MAD $\leftrightarrow$ Elegant convertor for FLASH and XFEL optics (in Matlab) (100%).
- Make a talk at BD group meeting (100%)
- Internal report (50%)

## Current work & plan

- Genesis simulation at XFEL : more random seeds with initial position & quad-misalignment for statistics (on going)
- To write XFEL excel data -> Elegant convertor (in matlab) : in upgrading
- To make a matlab script for the BBA experiment at FLASH (experiment will be done in Aug. 2013 or later)

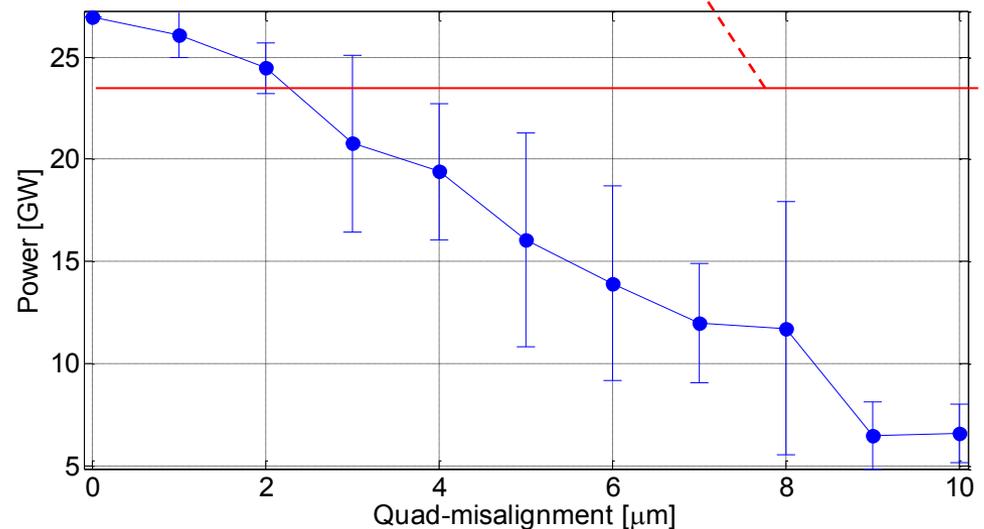
# Average radiation power with initial x-position & quad-misalignment



Average radiation power vs. initial horizontal position (5 random seeds for shot noise)

10 % decrease of average radiation power

Average radiation power vs. rms misalignments of quadrupoles (5 random seeds for misalignments & 1 random seed for shot noise)



Average radiation power ver.  
initial x-position & quad-misalignment (on-going)

