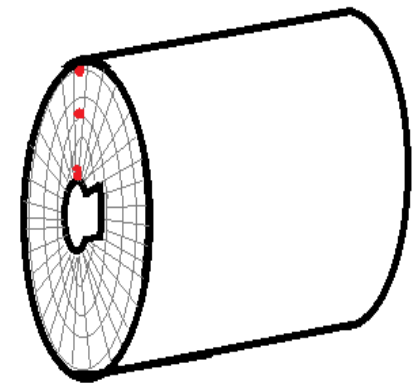
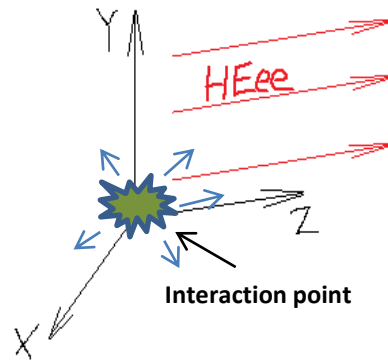


In process of work it has been seen that simulation shower from HEE (*high energy electron*) for RS (*radial segmentation*) goes longer than for US (*uniform segmentation*). It was found a defect in program and fixed. For significant results there are no changes after simulation, but program works faster now and size of output files is smaller.

Now I am working on SNR. I look at the ratio of signal from HEE shower and rms of background in every pad. First let's look at 10th layer of calorimeter (maximum energy deposition for shower).

It was needed to get the shower's core in every ring (radius). I sent HEE parallel to the magnetic field and change only Y-coordinate:



With different parameters H^eelectrons were generated:

- for 6 different energies: {500, 200, 100, 50, 20, 10} GeV
- for every ring (in total 20 rings)

They were simulated 10 times each for statistics.

Thus 1200 showers for each segmentation were simulated.

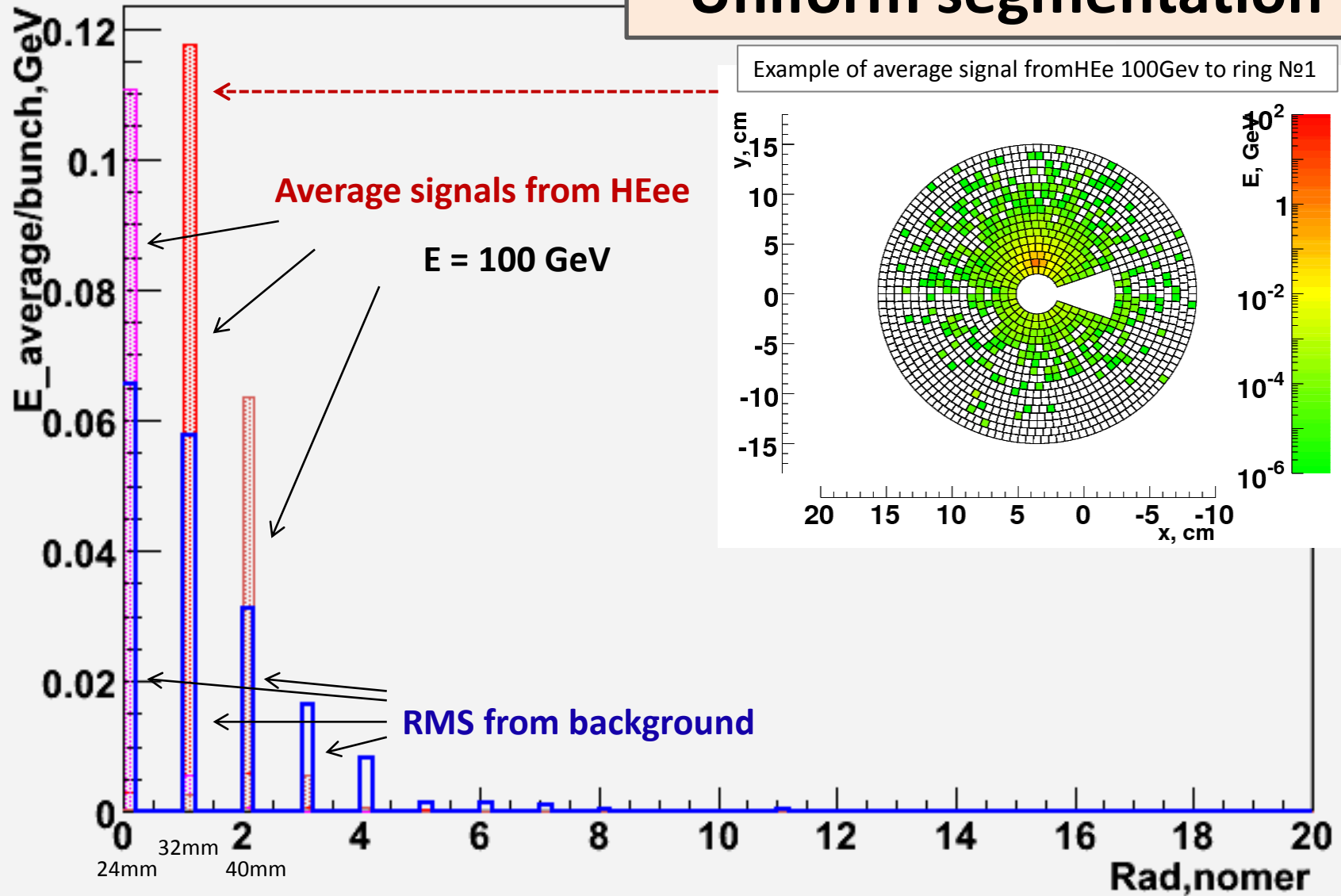
Now I am working on program which calculates ratio between signal and background.

Examples for first rings are shown in the following slides:

_Z=10_Phi=1.5, US

Uniform segmentation

Example of average signal from HEe 100GeV to ring №1



Z=10_Phi=1.5, RS

Radial segmentation

