

Background in KLOE with the NEW IR

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NEW Layout

Larger pipe
+ reduced empty spaces
+ W masks

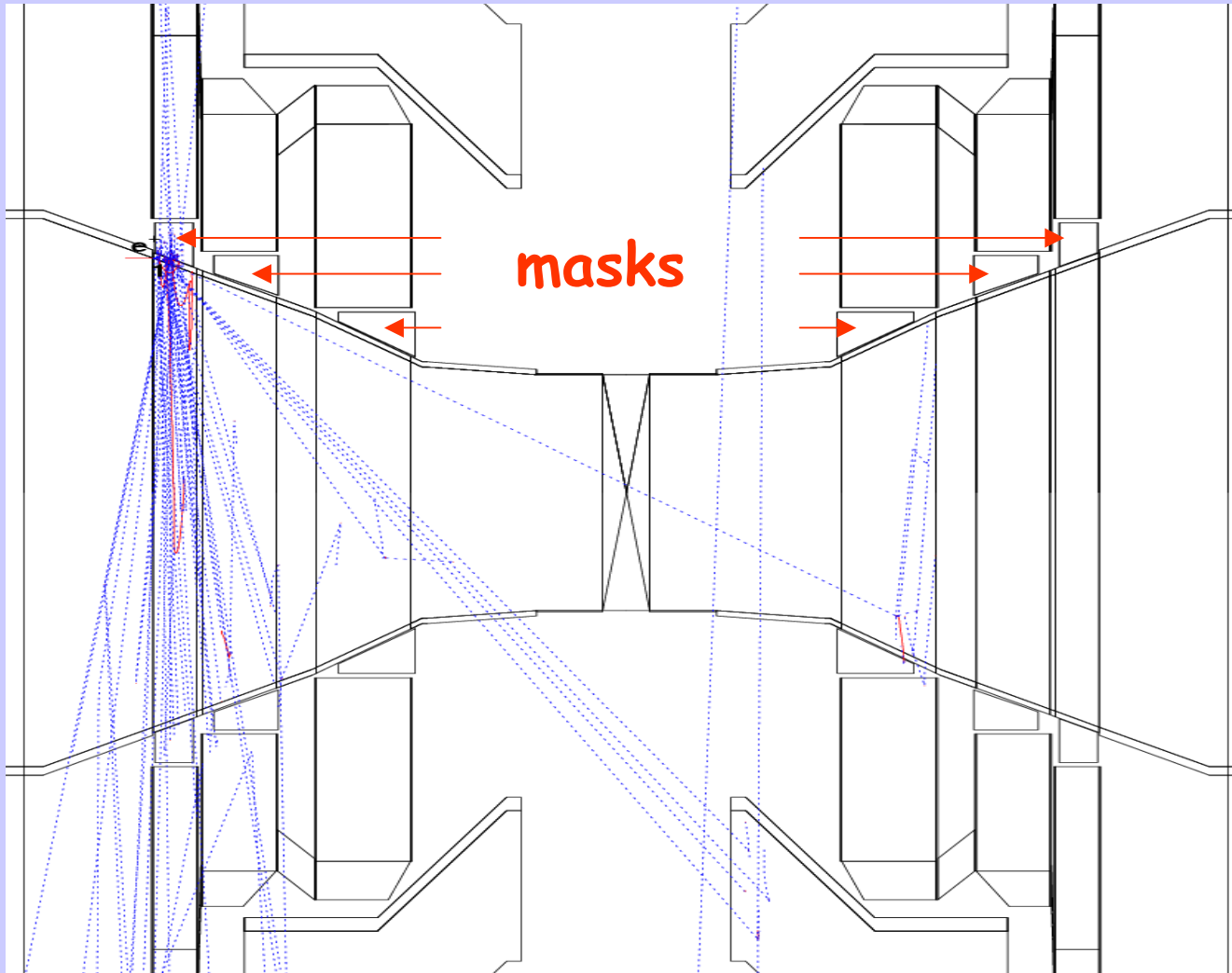
→ reduced background “effectiveness”

NEW optic

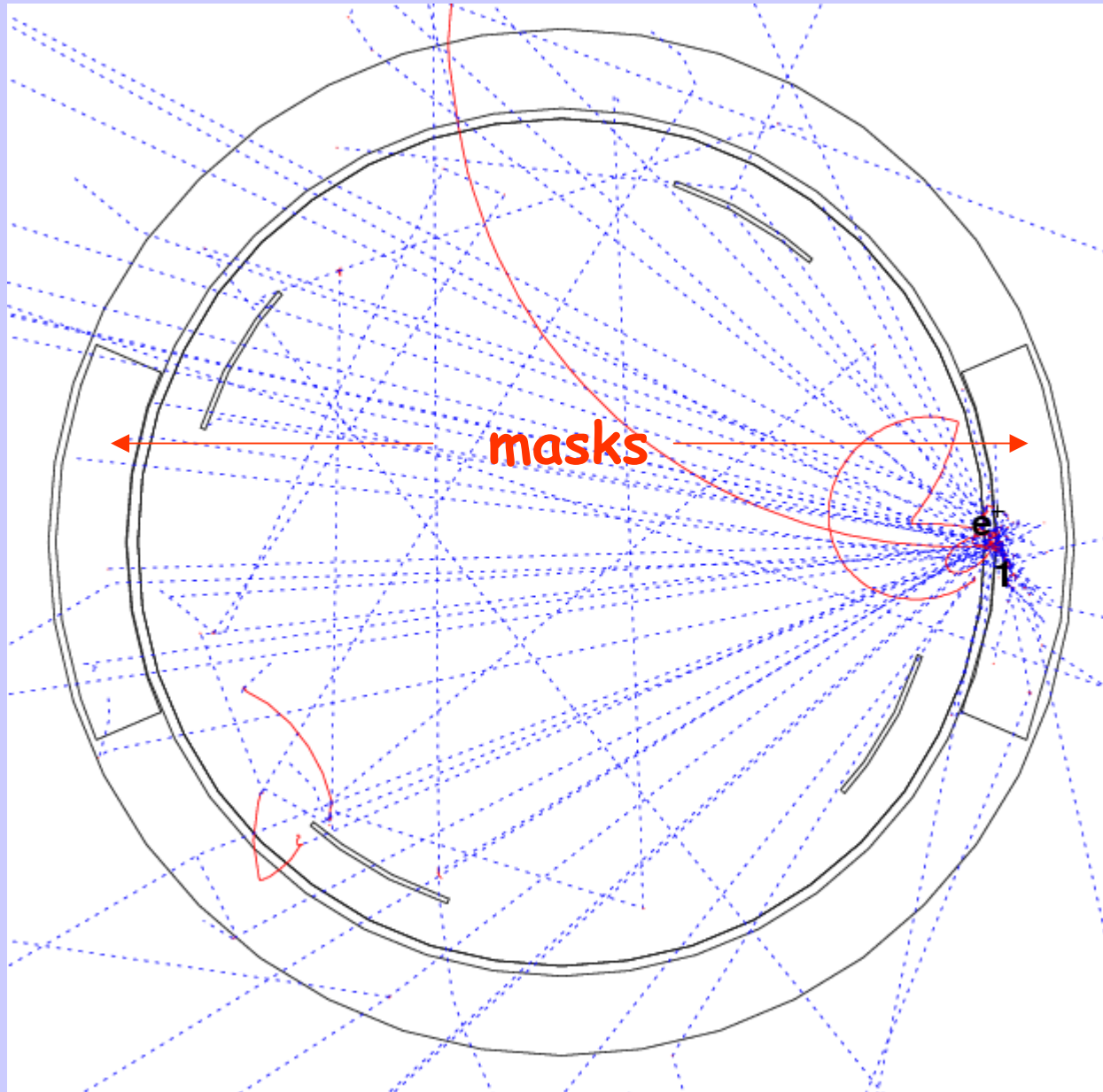
low β_x → reduced background in chamber

Symmetric background

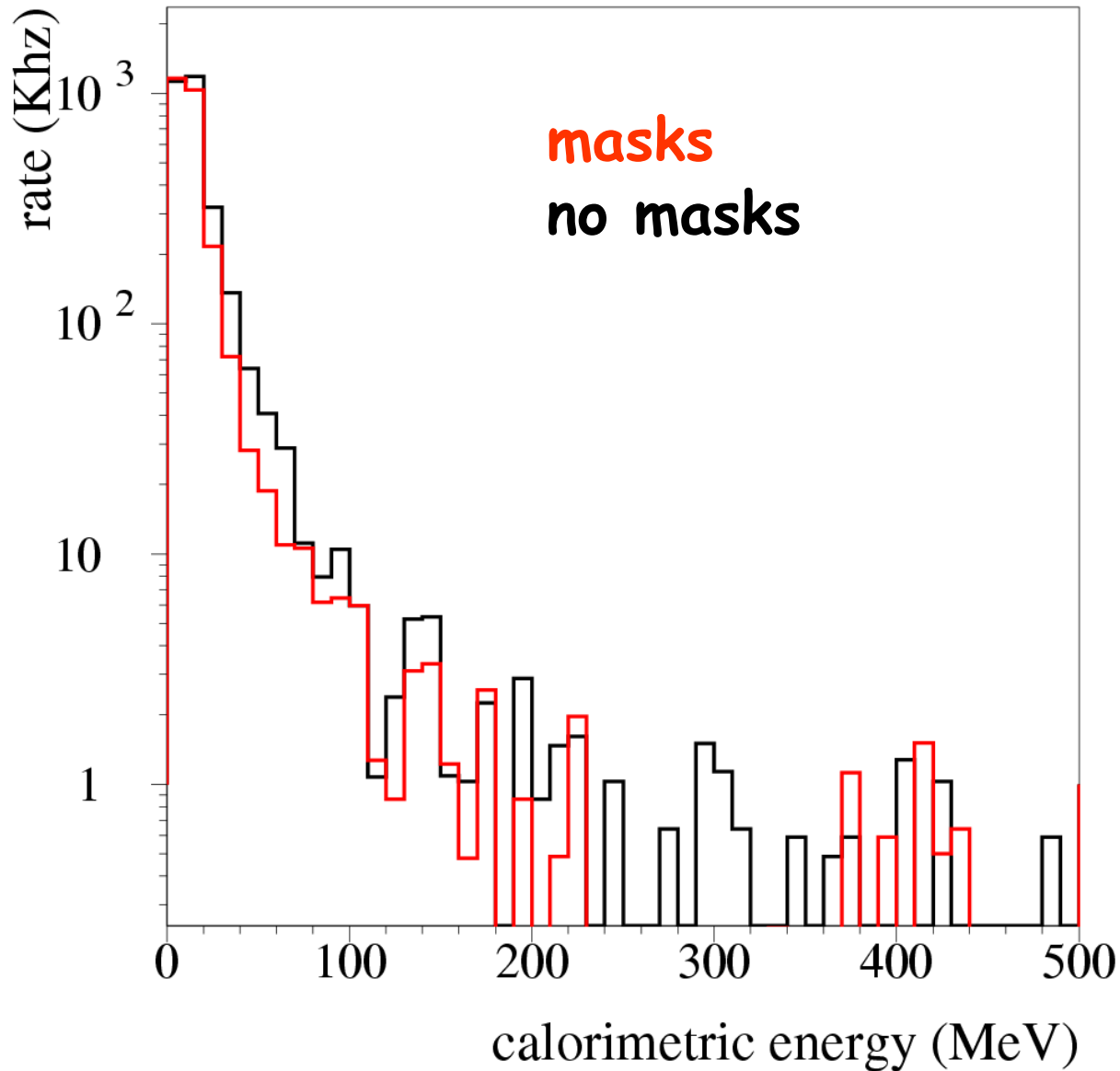
IR layout + background event x-s view



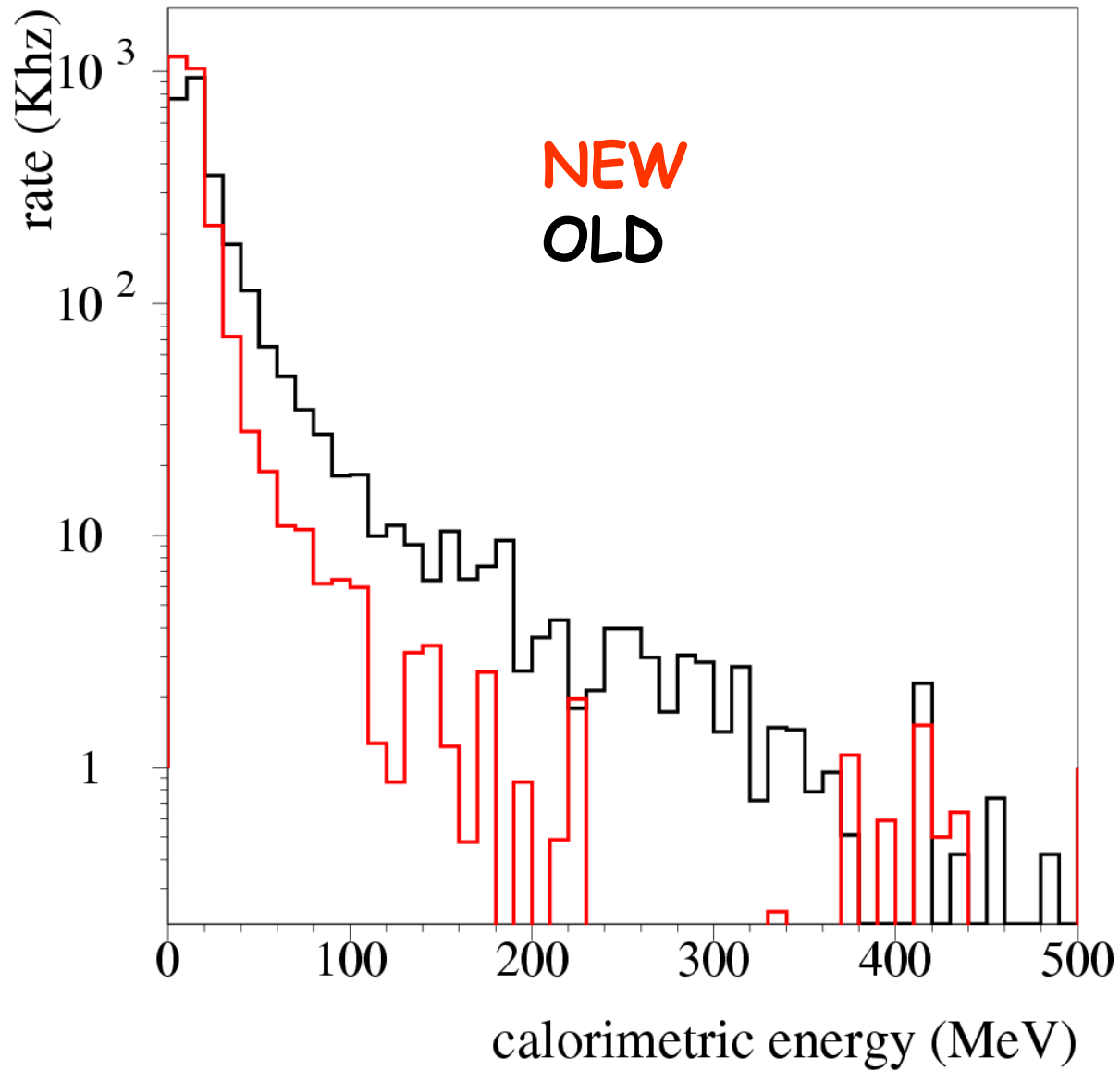
IR layout + background event x-y view



Masks effectiveness



New vs OLD



Losses in the forward region

some background
due to back-scattering



Additional masks
Before low- β quads?

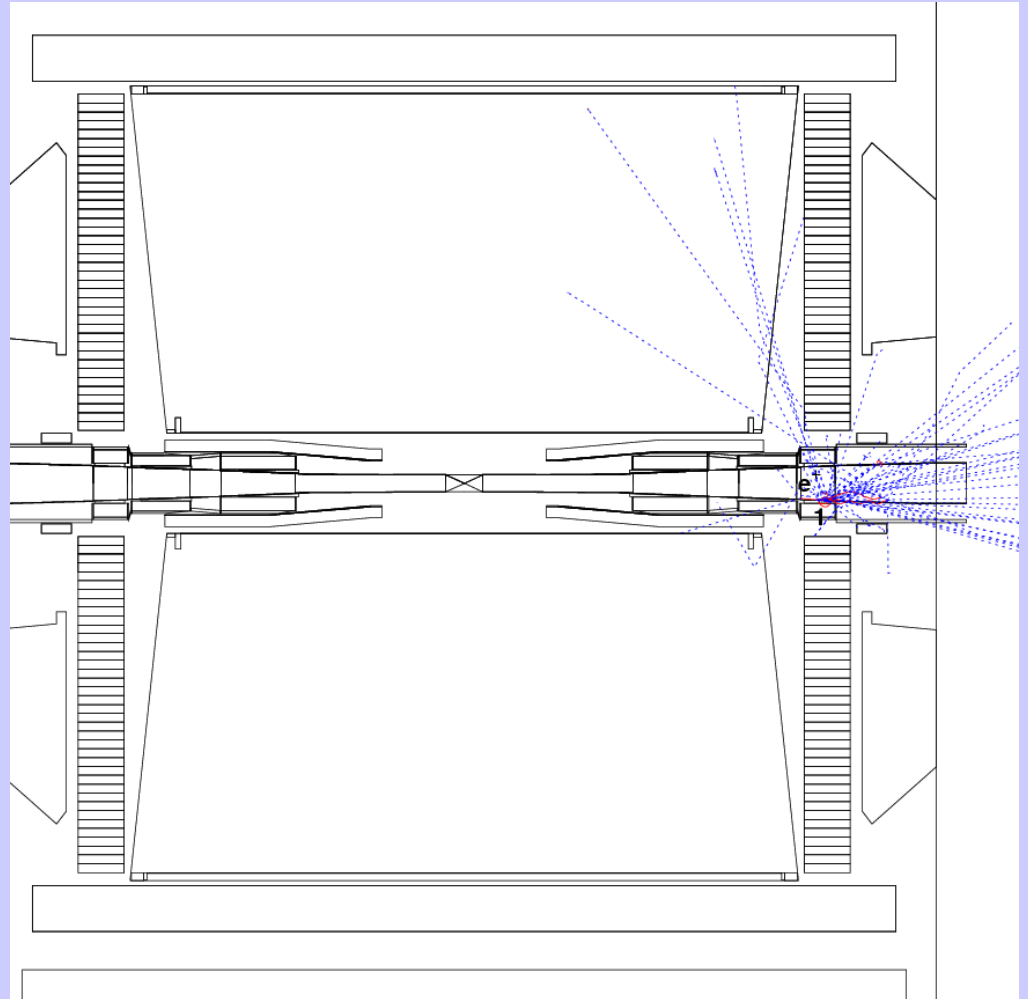
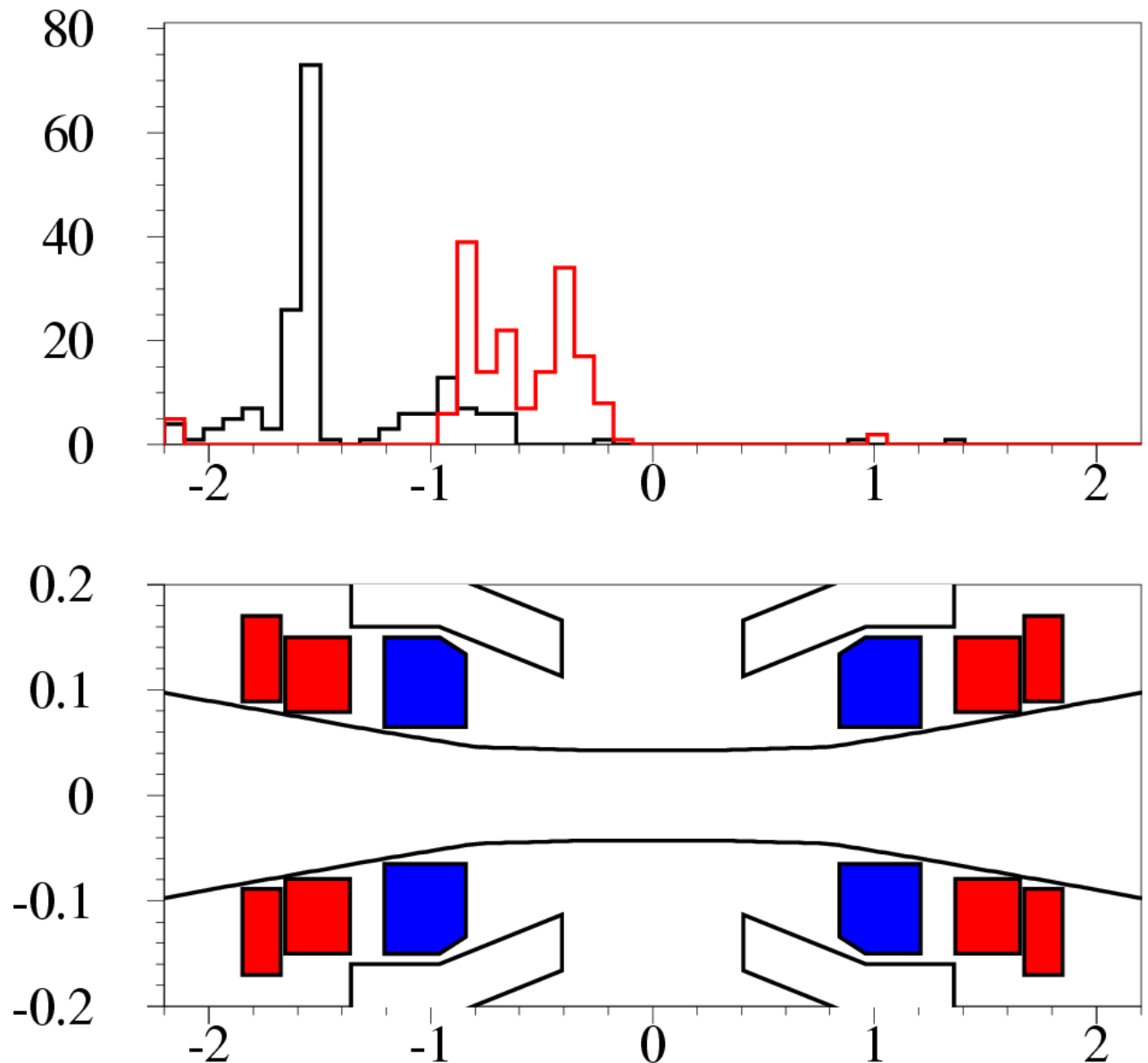


Figure of merit

some background
due to back-



Additional merit
Before low- β



Results with scan data

Data sample:
2001 + 2pb⁻¹ 2002

Γ_{ee} at ~7%

5 times more data
To be added
+ $\Gamma_{\mu\mu}$

