Present status of design study
to take larger beam size into account

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T.J. Robert’s simulations

At CKOV2 entrance window

At MUCAL entrance face
Unit cell based on existing PM EMI9356 KA (8-inch diameter)

including

• mumetal
• Winston cone
• soft iron shielding
• optical window
• element of aerogel box
• fixations of particle windows

1. Same longitudinal thickness (467 mm) as for smaller CKOV2 sizes

2. The dimensions are determined by the PM.
Transverse cut

12 PM's

Octogon mirror

2061.32

1300

850 (aerogel)
Caution

Do not take it for granted …

• It is not because the mechanics seems fine that it will work as far as the optics is concerned!

• The larger transverse size (while still keeping the same PM size) implies a larger number of reflections ... and thus light losses!