

FIRST/Planck Project Telefax

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Subject: FIRST Telescope Design

Dear all,

During the last quarterly progress meeting on the FIRST telescope we learned that the telescope consists of pie-shaped elements. The specific question I want to raise and ask for your support is related to the design.

Assume as a worst case that the front faces (pie segments) are not connected, but separated by a 2mm wide gap (c:z).

Further assume that there will be gradient in temperature between the segment of order of 0.5 K.

Note that three of six "gaps" will be for the outer part "shadowed" by the tripod legs.

Could you confirm that even under the above worst case assumptions, the design would not impact the instrument performances (considering off-axis position of instruments and chopping). A quick answer would be appreciated.

Best regards,

T. Passvogel

ESTEC

Pastbus R99 - N1 2200 AG NoAwiik - Kaplaticon 1 . N1 2201
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