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TO: RA, KING
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NOTE

FIRST/Planck Project

Telefax

Fax No : (31) 71 565 5244

Tel. No : (31) 71 565 5962

Ref. : PT-05908

Date : 5 October, 1998

From : T. Passvogel (SCI-PT)

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To : M. Griffin (QMWC/London)
A. Poglitsch (MPE/Garching)
Th. de Graauw (SRON/Groningen)
K. King (RAL/Oxfordshire)
B. Swinyard (RAL/Oxfordshire)
O. Bauer (MPE/Garching)
H. Aarts (SRON/Utrecht)
D. Beintema (SRON/Groningen)

Fax No: 44 181 980 0986
49 89 3299 3292
050 363 4033
44 1235 44 6667
44 1235 44 6667
49 89 3299 3569
030 254 0860
050 363 4033

To : F. Felici, M. Anderegg, H. Schaap, B. Guillaume, B. Collaudin, G. Pilbratt

Subject : FIRST/Planck - FIRST FPU/Optical Bench Optimisation

Ref. : MoM of the FIRST Telescope Meeting (PT-MM-05886), held at 30.09.98
at ESTEC (SPIRE-ESA-MOM-000050.10)

Please find below as input to your considerations on the optimisation of the optical bench layout the close-out of the AI #10 of the above ref. meeting:

"ESA to provide to the instruments the geometry of the Instrument Shield"

The definition from industry is a set of coordinates that describe the shield. The coordinates are in the spacecraft system with the origin in the centre of the optical bench.

Please use the values as an approximation of the envelope with a requirement set by industry keep a minimum distance of 15 mm between the FPU and the shield.

The maximum size of the shield can be assumed symmetric around the x-axis (the coordinates below provide a cut along the z-axis).

The final value indicates the diameter of the Baffle opening of 270 mm (2 * 135 mm).

ESTEC

Postbus 299 - NL 2200 AG Noordwijk - Keplerlaan 1 - NL 2201 AZ Noordwijk ZH
<http://sci.esa.int/tiust>

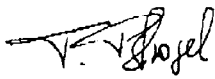
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x	y	z
0	0	815
271	0	815
315	0	807
350	0	787
379	0	758
431	0	662
461	0	563
497	0	337
504	0	135

Best regards



T. Passvogel