



**Technical meeting on the future bolometer instrument for the IRAM 30m telescope; list of participants and agenda**

List of participants :

Cardiff :

Philip Maukopf

CEA :

Louis Rodriguez

Vincent Reveret

GSFC :

Johannes Staguhn

MPIfR :

Ernst Kreysa

Neel :

Alain Benoit

Alessandro Monfardini

SRON :

Stephen Yates

Andrey Baryshev

IRAM :

Samuel Leclercq

Karl Schuster

Santiago Navarro

Pierre Cox

Albrecht Sievers

Robert Zylka

Agenda :

Monday, October 13

9h00-9h10	Welcome, goals of the meeting and agenda.
<b>Item 1: General framework of the new bolometer project for the 30m telescope</b>	
9h10-9h30	Context of the project: arguments for a new bolometer instrument and description of the site and telescope characteristics (K.Schuster, S.Leclercq).
9h30-9h50	Future 10 arc minutes Field Of View optics at the 30m telescope (S.Leclercq).
9h50-10h10	Specifications for an ideal bolometer array using bare pixels or feedhorns at the 30m telescope (S.Leclercq).
10h10-10h30	Break
<b>Item 2: Presentations lab activities and interests related the bolometer project</b>	
10h30-10h45	Cardiff
10h45-11h00	CEA
11h00-11h15	GSFC
11h15-11h30	MPIfR
11h30-11h45	Neel
11h45-12h00	SRON
12h00-13h30	Lunch
<b>Item 3: Stray light and Sky noise</b>	
13h30-15h30 <i>1<sup>st</sup> discussion</i>	Is it possible to suppress stray light efficiently for a filled array instrument fitting the limited room available in the 30m receiver cabin ? Is a compromise of FOV against baffling and filtering necessary ? Key words: baffling, filtering, state of the art, simulations, experiments, understandable and verifiable results.
15h30-16h30 <i>2<sup>nd</sup> discussion</i>	Does sky noise affect significantly different measurements with feedhorns and filled arrays ? What are the key parameters for this influence ? Key words: sky noise structure, anomalous refraction, statistics, pixel characteristics, observing modes, sources types, data reduction.
16h30-16h45	Break
<b>Item 4: Options for the future instrument</b>	
16h45-17h30 <i>3<sup>rd</sup> discussion</i>	What are technical options for a multiband instrument ? Key words: Several cryostats, dichroics, multicolor pixels.
17h30-18h30 <i>4<sup>th</sup> discussion</i>	What are the required environmental conditions for various detector technologies ? Key words: EMI, Microphonics, vibrations, accelerations.
18h30-19h00	Open discussion and conclusion of the 1 <sup>st</sup> day.
19h15	Dinner

Tuesday, October 14

9h00-10h30 <i>5<sup>th</sup> discussion</i>	What are the constraints and compromises to build the best efficient and versatile instrument ? Key words: FOV, number of bands, sensitivity, technology limitations, observing site. (Budget and science issues may be evocated but are beyond the scope of this meeting).
10h30-10h50	Break
<b>Item 5: Next steps for the project</b>	
10h50-11h50 <i>6<sup>th</sup> discussion</i>	What are the next steps to assure progress towards the future instrument ? Key words: simulations, experiments, prototypes, financing strategies, competition, collaboration, planning.
11h50-12h00	Conclusion of the workshop. Lunch.