

## Netherlands Institute for Space Research

Dr. Craig Kulesa University of Arizona Tucson, AZ 85721 USA United States of America

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E-mail; j.r.gao@tudelft,nl Date: Oct 15, 2015

Re: Letter of commitment for HEAT

Dear Dr. Kulesa

I acknowledge that I am identified by name as a collaborator on the investigation entitled 'Continued Development of the HEAT telescope at Ridge A' that is being submitted by Dr. Craig Kulesa in response to NSF Program Solicitation GPG 15-1 (Advanced Tech Instr. ATI), and that I intend to carry out all responsibilities identified for me in this proposal. I understand that the extent and justification of my participation as stated in this proposal will be considered during peer review in determining in part the merits of this proposal.

SRON's track record includes the Principal Investigator role of the HIFI instrument on Herschel, and contributions to the receivers for Band 9 of the Atacama Large Millimeter Array. SRON still maintains a research and development program dedicated to SuperTeraHertz technology and towards heterodyne receivers. If HEAT is selected, SRON is committed to provide technical expertise in HEB mixer and to build two HEB mixers for HEAT.

I wish you and your team all success and look forward to a fruitful collaboration.

Sincerely yours.

Dr. Jian-Rong Gao
Project leader ofthe super-THz technology at SRON and TU Delft
Senior Instrument Scientist in SRON Netherlands Institute for Space Research
Part time senior researcher in Delft University of Technology