NRAO Charlottestille, Meeting 24-25 June 1997

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Groups to report by mid-October

Correlator =	\$2M + \$6M (\frac{N}{40})^2	More power Bigur building
#	Cost	Correlator architecture
40	#8M	
60	15.5]	
80	26 could be less depending on 56 chip cost with volume or new	0.7
120	56) chip cost with volume or new	tobrication techniques

Systems	Antennes	40 x 8 m + 30 x 15 m 64 x 12 m	7300 m² 7200 m²
Thompson Webber	Nzpier Luzten		
Torres Emerson	(woody?)		
(? Europe) (Guillotezu?)	Andersen Platu en		

Meetings: 18 Aug at IRAM 29 Sep at VLA

Science committee will go as for as they can, then take into from antenna group to avaluate specific science programs.

RESOLUTION

Whereas the development of millimeter-wavelength astronomy in the United States and Europe has shown the potential of large millimeter interferometric arrays for revealing the origin and evolution of stars and planetary systems, of galaxies, and of the Universe itself; these communities have proposed the construction of the Millimeter Array (MMA) and the Large Southern Array (LSA), respectively; and there is an opportunity through cooperation to achieve more than either community planned; we, as the observatories responsible for these projects and with the support of our communities, resolve to organize a partnership that will explore the union of the LSA and MMA into a single, common project. Specifically, this partnership will study the technical, logistical, and operational aspects of a joint project. Of particular importance, the two antenna concepts currently under consideration will be studied to identify the best antenna size and design or combination of sizes to address the scientific goals of the two research communities. In doing so we will work through our observatories, utilizing the expertise in millimeter astronomy resident in research groups and institutions in our communities. Finally, we recognize that there are similar goals for millimeter astronomy in Japan, and current cooperative activities with that project will continue.

R.Giacconi

P. Vanden Bout

European Southern Observatory

National Radio Astronomy Observatory

26 June 1997

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