

NATIONAL RADIO ASTRONOMY OBSERVATORY
CHARLOTTESVILLE, VIRGINIA

FX Correlator Workshop

Thursday, 1987 February 26, 09:00

INTRODUCTION TO THE WORKSHOP	<i>Romney</i>	10 ^m
THE FX CORRELATOR	<i>Romney</i>	15 ^m
AN FX CORRELATOR FOR THE VLBA		
Design Review	<i>Escoffier</i>	30 ^m
FFT / Multiplier Chip	<i>Greenberg</i>	20 ^m
Back End	<i>Broadwell</i>	15 ^m
Special Elements		
Fringe Rotator	<i>Romney</i>	15 ^m
Time Window	<i>Schwab</i>	15 ^m
Modes	<i>Romney</i>	20 ^m
Cost Estimate	<i>Escoffier</i>	20 ^m

Lunch 12:00 – 13:00

SIMULATIONS		
“Software” — Convex / Cray	<i>Benson</i>	30 ^m
“Hardware” — TMS 32020	<i>Escoffier / Broadwell</i>	30 ^m
COMPARISON: FX vs. XF		
Fundamental Hardware	<i>Romney</i>	15 ^m
An Alternative Lag Correlator Design	<i>Escoffier</i>	25 ^m
Performance	<i>Romney</i>	20 ^m
FRINGE ROTATION	<i>Granlund</i>	30 ^m
DISCUSSION: UNRESOLVED ISSUES		60 ^m
How Many Stations?		
Sequence of Window & Rotation		
Number Representation		
DPS Flexibility		
Gate Arrays		
FX Correlators for other Applications		
GENERAL DISCUSSION		40 ^m

Adjourn 17:30