## **BEST-2 Specifications**

## 2 August 2011

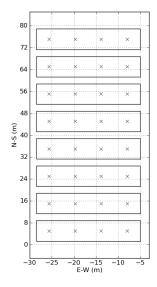


Figure 1. BEST-2 8 cylinder array layout

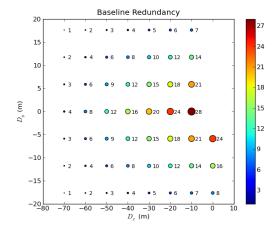


Figure 2. Color and size represent the redundancy of a baseline

Culin dan Duamantias		
Cylinder Properties		
Number of RX per cylinder	4	
Cylinder diameter	7.5	m
Cylinder lenght	23.5	m
Element diameter	7.5	m
Element lenght	5.88 44.1	$m = m^2$
Element collecting area	$\frac{44.1}{0.71}$	$m^{-}$
Aperture efficiency Element effective area	31.311	$m^2$
Element enective area	31.311	<i>m</i> -
BEST-2		
Number of cylinder	8	
Total number of RX	32	
Total collective area	1411.2	$m^2$
Total effective area	1001.95	$m^2$
Sensitivity / Ant. gain	0.36	K/Jy
Aeff/Tsys	11.65	$m^2/K$
Antenna temperature	35	K
Receiver temperature	51	K
System temperature	86	K
Language hagaling		
Longest baseline	17.04	
E/W	17.04	m
N/S	70.00	m
Bandpass		
Central frequency	408	MHz
Analog BW	16	MHz
Digital BW	20	MHz
Channels	1024	
Channel Resolution	19.53	kHz
Pointing Limits		
declination	(0, +90)	deq
right ascension	local meridian	9
D: D		
Primary Beam	D# 00	1 2
Primary beam size	37.62	$deg^2$
declination	5.7	deg
right ascension	6.6	deg
Synthesized Beam		
Synthesized beam size	0.9	$deg^2$
declination	0.52	deg
right ascension	1.73	deg
Correlator		
Baselines	496	
	496 6.5	
Integration time (min)	6.0	ms