

„Standard Receivers“ for Polarimetry - equipped with own polarimeter

Receiver	Horns	Remarks
18/21cm – Prime Focus	CP	„8-channel polarimeter“: splits the whole band (32 MHz) into 8 subbands, all with full Stokes
11cm – Secondary Focus	CP	„8-channel polarimeter“: splits the whole band (80 MHz) into 8 subbands, all with full Stokes
6cm – Secondary Focus	CP	2 horns
3.6cm – Secondary Focus	CP	
2.8cm – Secondary Focus	CP	4 horns
9mm – Secondary Focus	CP and LP	New system with 7 Beams

Narrow band-IF polarimeter

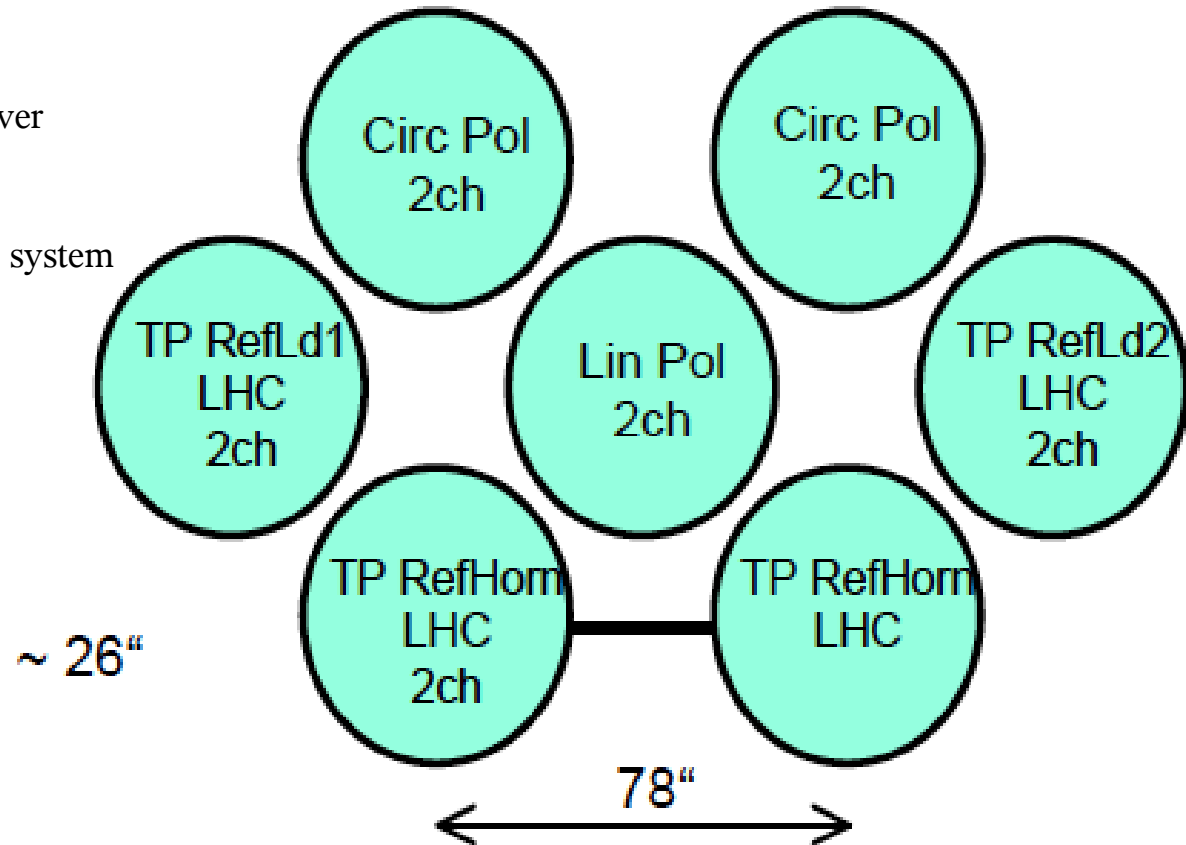
- for the 100-200 MHz IF
- can be connected to all receivers with 2 orthogonal polarisations, eg. 5cm – Prime Focus, 2.2cm – Prime Focus
- but: not all receivers have the phase switch (S5 – for better stability) and not all receivers allow the adjustment of the phase

VLBA-IF polarimeter

- for the 500-1000 MHz IF
- potential receivers are: 2cm – Secondary Focus, 1.3cm – Secondary Focus (both with native circular horns), 1.3cm – Prime Focus (with native linear horns)
- S5 phase switch in polarimeter included
- but not yet properly tested

New 9mm-7 Beam receiver

- build as a prototype system for a larger receiver
- consists of 7 different receivers
- has it's own backend
- will be in full operation with the new control system (to be activated in summer 2010)



Spectropolarimetry

- news A-FFTS has 16 banks (each with 16384 channels)
- possibility to be connected to the output of a polarimeter
- possible bandwidths are 500, 100, 20 MHz (VLBA-IF), 100 & 20 MHz (Narrow band-IF)
- has to be tested thoroughly