CASPER Workshop 2027



Monday, 12 April 2027 - Friday, 23 April 2027

Cape Town Lodge Hotel

Scientific Programme

Radio telescope digital signal processing systems

Radio astronomy instruments, instruments that detect transients, use interferometry, use phased array antennas, large sensor arrays etc.

Platforms

FPGA, ACAP, RFSoC, DirectRF, GPU and other platforms of interest.

Algorithms & processing concepts

Novel data processing concepts, algorithms and implementation e.g. high speed data capture (FPGA->GPU), radio astronomy DSP, filter banks/FFT, RFI mitigation, precision timing, beam forming, correlation.

Development Tools

Development tools to speed up application design. Graphical front ends, design entry, code building back ends, scripting tools etc.

Discussion panels / breakout sessions

TBD during the workshop