## PROJECT NAME

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| PROJECT DETAILS | |
| Title |  |
| Principal Investigator |  |
| Co-Authors |  |
| Time Request |  |

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| FACILITY | | Preconditions |
|  | SKA1-LOW |  |
|  | SKA1-MID |  |

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| RECEIVER(S) REQUIRED | | Time (hrs) |
|  | SKA1-LOW |  |
|  | SKA1-MID Band 1 |  |
|  | SKA1-MID Band 2 |  |
|  | SKA1-MID Band 3 |  |
|  | SKA1-MID Band 4 |  |
|  | SKA1-MID Band 5 |  |

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| OPERATIONAL MODE  (as defined in Concept-of-Operations) | | Details |
|  | Normal |  |
|  | Fixed schedule (give cadence) |  |
|  | Time-critical override |  |
|  | Custom Experiment |  |
|  | Commensal |  |
|  | Collaborative & Coordinated |  |
|  | Sub-arrays required |  |

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| COMMENTS ON OBSERVING STRATEGY |
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| POLARISATION PRODUCTS REQUIRED : *BEAMFORMER ( ) or CORRELATOR ( X )* | | | |
|  | XX |  | Stokes I |
|  | YY |  | Stokes Q |
|  | XY |  | Stokes U |
|  | YX |  | Stokes V |

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| SCIENTIFIC DESCRIPTION (max 200 words) |
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| ‘TARGETS’ OF OBSERVATIONS | | |
| Type of observation  (what defines a ‘target’) |  | Individual pointings per object |
|  | Individual fields-of-view with multiple objects |
|  | Maps through multiple fields of view |
|  | Non-imaging pointings |
| Number of targets |  | |
| Positions of targets |  | |
| Rapidly changing sky position?  (e.g. comet, planet) |  | YES [details: ………………………………………..] |
|  | NO |
| Time Critical? |  | YES [details: ………………………………………..] |
|  | NO |
| Integration time per target  (hrs) |  | |
| Average peak flux density  (Jy or Jy per beam) |  | |
| Range of peak flux densities  (Jy or Jy per beam) |  | |
| Expected polarised flux density  (expressed as % of total) |  | |

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| OBSERVATIONAL SETUP : *BEAMFORMER ( ) or CORRELATOR ( )* | |
| Central Frequencies (MHz)  (including redshift, observatory correction) |  |
| Total Bandwidth (MHz) |  |
| Minimum and maximum frequency over the entire range of the setup (MHz) |  |
| Spectral resolution (kHz) |  |
| Temporal resolution (in seconds) |  |

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| NON-IMAGING SPECIFIC CONSIDERATIONS | | |
| Required angular resolution of a tied array beam (arcmin) |  | |
| Maximum baseline required (km) |  | |
| Primary beam size (sq degrees) |  | |
| Number of output channels |  | |
| Output bandwidth (minimum and maximum frequency - MHz) |  | |
| Required rms (Jy)  (if polarisation products required define for each) |  | |
| Dynamic range  (if polarisation products required define for each) |  | |
| Absolute flux scale calibration |  | 1-3% |
|  | 5% |
|  | 10% |
|  | 20-50% |
|  | n/a |

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| IMAGING CONSIDERATIONS (CONTINUUM. This includes the specifications for a ‘support image’ in the case of VLBI observations) | | |
| Required angular resolution (arcmin)  (single value or range) |  | |
| Maximum baseline required (km) |  | |
| Mapped image size (degrees) |  | |
| Required pixel resolution (arcseconds) |  | |
| Number of output channels |  | |
| Output bandwidth (minimum and maximum frequency - MHz) |  | |
| Required rms (Jy per beam)  (if polarisation products required define for each) |  | |
| Dynamic range within image  (if polarisation products required define for each) |  | |
| Absolute flux scale calibration |  | 1-3% |
|  | 5% |
|  | 10% |
|  | 20-50% |
|  | n/a |

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| IMAGING CONSIDERATIONS (spectral – multiple channels of narrow bandwidth) | | |
| Required angular resolution (arcmin)  (single value or range) |  | |
| Maximum baseline required (km) |  | |
| Mapped image size (degrees) |  | |
| Required pixel resolution (arcseconds) |  | |
| Number of image channels |  | |
| Channel width (kHz) |  | |
| Required rms (Jy per beam per channel)  (if polarisation products required define for each) |  | |
| Dynamic range within image per channel  (if polarisation products required define for each) |  | |
| Absolute flux scale calibration |  | 1-3% |
|  | 5% |
|  | 10% |
|  | 20-50% |
|  | n/a |

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| IMAGING CONSIDERATIONS (VLBI) | | |
| Required angular resolution (arcmin)  (single value or range) |  | |
| Mapped image size (degrees) |  | |
| Number of image channels |  | |
| Channel width (kHz) |  | |
| Required rms (Jy per beam per channel)  (if polarisation products required define for each) |  | |
| Dynamic range within image per channel  (if polarisation products required define for each) |  | |
| Absolute flux scale calibration |  | 1-3% |
|  | 5% |
|  | 10% |
|  | 20-50% |
|  | n/a |

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| DATA ANALYSIS | |
| Procedures required |  |
| Processing considerations  (e.g. flag high wind speed data, reprocessing required?) |  |
| Data products |  |
| Description of pipeline |  |
| Quality assessment plan & cadence |  |
| Latency (Desired time lag between observation commencement and data being available in the archive. e.g. This could range from 'a few seconds' for transient detections using the fast imaging pipeline, to 'upon completion of scheduling block and pipeline reduction' (approximately 24 hours), to ‘at completion of the full project’.) |  |

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| ISSUES TO BE DETERMINED/RESOLVED  (Here you should include any additional information that needs to be resolved before this science can be carried out) |
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| REFERENCES |
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