

## A.1 Terminology:

Ekers & Wilson, *Radio Telescopes, in Planets, Stars and Stellar Systems*, Springer, 2013

| <b>Radio</b>              | <b>Optical</b>                      |
|---------------------------|-------------------------------------|
| grating responses         | aliased orders                      |
| primary beam direction    | grating blaze angle                 |
| UV (visibility) plane     | hologram                            |
| bandwidth smearing        | chromatic aberration                |
| local oscillator          | reference beam                      |
| Antenna, dish             | Telescope, element                  |
| Sidelobes                 | Diffraction pattern                 |
| Near sidelobes            | Airy rings                          |
| Feed legs                 | Spider                              |
| Aperture blockage         | Vignetting                          |
| Dirty beam                | Point Spread Function (PSF)         |
| Primary beam <sup>1</sup> | Field of View                       |
| Map                       | Image                               |
| Source                    | Object                              |
| Image plane               | Image plane                         |
| Aperture plane            | Pupil plane                         |
| UV plane                  | Fourier plan                        |
| Aperture                  | Entrance pupil                      |
| UV coverage               | Modulation transfer function        |
| Dynamic range             | Contrast                            |
| Phased array              | Beam combiner                       |
| Correlator                | ?                                   |
| Receiver                  | Detector                            |
| Taper                     | Apodise                             |
| Self calibration          | Wavefront sensing (Adaptive optics) |

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<sup>1</sup> This applies to an array with single pixel receivers. Now radio astronomy also has 2D phased array feeds in the focal plane the term Field of View is used for the coverage of all the primary beams