

MS³ and the EoR project

EoR shallow survey

- Identify fields for deep EoR integrations
- Away from:
 - Galactic plane
 - North polar spur
 - Horizon
- 825 h × 32 MHz
- ≈ 5000 square degrees above $\delta = +20^\circ$ and $l = +20^\circ$
- Single integration: 3 h and 4 MHz

EoR objective MS³

Identify search area of EoR shallow survey:

- **Few (complicated) bright sources**
- **At least one simple bright source**
- **Little Galactic *I* synchrotron**
- **Little Galactic polarization**

Requirements

- Sufficiently short baselines (complete supercore)
- Working polarization calibration of
 - Stations
 - Ionosphere
- Working polarization imaging
- At 15 minutes and 6 MHz, and with descoped LOFAR, MS³ image sensitivity is ≈ 6 times worse than intended in EoR shallow survey.